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6/23/2005 Calculation Cover Sheet Project Calculation Number Project Number Saltstone Vault Performance Assessment T-CLC-Z-00006 N/A Title Functional Classification Saltstone Vault Structural Degradation Prediction PS Sheet 1 of 615 Discipline Structural Mechanics Preliminary Computer Program: ANSYS NA 🗍 Version/Release: 7.0 Purpose and Objective This calculation predicts the performance of the Saltstone Vault Number 4 over time, considering static settlement and the effects of earthquakes. A statistical approach combined with non-linear structural analysis is used. The objective is to estimate structural cracking and associated statistical uncertainty during the next 10,000 years. Summary of Conclusion See page 21 Revisions UNCLASSIFIED CONTROLLED Rev. Revision Description No. **NUCLEAR INFORMATION** 0 Original Issue Reviewing 103111 Official (Name and Title) 7/10/03 Date: Rev. Originator (Print) Sign/Date Verification/Checking Method Verifier/Checker (Print) Sign/Date Manager (Print) Sign/Date No. W. L. Peregoy 0 Document Review of Roger Farish Greg Mertz FE Analysis 0 Independent Review of Statistical Analysis Design Authority - (Print) Signature Date Release to Outside Agency - (Print) Signature Date



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1 INTRODUCTION AND SCOPE

Saltstone Vault Number 4 is a rectangular monolith 200-ft. wide by 600-ft. long by 27-ft. high. It is constructed of reinforced concrete with a 2-ft. base slab and 1 ½-ft. thick walls. The roof is nominally 6-in. thick, but is not considered as a structural element. Its purpose is for weather protection only.

The vault is filled with a saltstone grout mix that solidifies to form a weak concrete.

Prediction of structural cracking with time in this calculation is used in conjunction with groundwater flow modeling (by others) to estimate the potential leaching of radiological and chemical contaminants over time. The calculation is intended to cover times up to 10,000 years from the present. Since the time frame is so long, there are significant probabilities of large earthquakes that exceed those normally considered for production support facilities.

In its final configuration, the vault is completely filled with saltstone covered by clean grout and surrounded with soil backfill. Inertial loading of the vault itself does not induce significant structural stress since it is a monolithic structure. The only structural mechanism that causes cracking is settlement of the foundation soil.

This calculation covers cracks induced by settlement of the ground beneath the vault. There are two types of settlement: first, static settlement over time caused by the initial response of the soil to the loading imposed by the vaults and the consolidation of the soil layers, and second, differential settlement of local areas under the vault caused by earthquakes. The cracking caused by the static settlement is induced by a dishing effect that produces a curvature at the base of the vault. The differential settlement also causes a curvature, but over a small area. Geotechnical investigations did not find liquefaction potential and soft zones that could cause larger and more extensive settlements during a seismic event.

This calculation is based on the vault geometry as of January 1, 2003. Changes in configuration after that date are not considered. The cracks observed during and after filling the cells in the vault are assumed to be 100% repaired. Cracks caused by degradation of materials, weathering, chemical reactions, etc. are addressed elsewhere.

A typical cross section of the vault is shown in Figure 1. The locations of construction joints and the locations assumed for earthquake induced differential settlements are shown on this figure. Note that this cross section represents half of the overall vault. The vault is symmetrical at its center and the two halves are separated by a 3in expansion joint.

The analysis is performed in three parts:

<u>Static Settlement Model.</u> An axisymmetric model is run with appropriate soil properties to determine the static settlement pattern over time. Soil properties are based on actual settlement recorded for the Defense Waste Processing Facility (DWPF).

<u>Structural Model.</u> A structural model of the vault, including the structural concrete and saltstone, determines the extent of cracking for both static and earthquake induced settlements. Location, extent, and magnitude of differential settlement are considered as parameters.

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<u>Statistical Model.</u> The relationships of extent of cracking to the input parameters is determined from the results of multiple structural analyses. A Monte Carlo analysis utilizing these relationships is performed to determine the behavior of the vault over time.

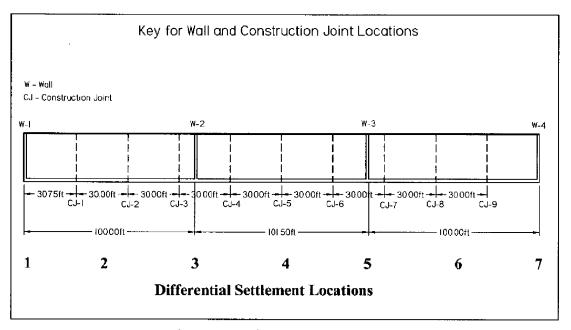


Figure 1. Typical Vault No. 4 Cross Section

2 INPUT

2.1 Drawings

The following drawings are used for the structural data in this calculation:

C-CC-Z-0011, through 14.

Saltstone Vault #4 Roof

W828992, 993, and 999

Saltstone Vault #4 Concrete and Steel

2.2 Materials

<u>Concrete</u>: Concrete strength is taken as 4000 pounds per square inch (psi) and steel reinforcement is assumed to be Grade 60 (yield strength = 60,000psi).

<u>Saltstone</u>: Structural properties are taken from WSRC-TR-2003-00082. Relevant pages are included in Appendix A.

Soil: Appendix B contains the soil data and DWPF settlement data used in the analysis.

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<u>Vault Cover</u>: The soil cover for Vault No. 4 is taken from The Revision 2 Closure Cap Configuration Report issued on 04/02/2003 by Mark Phifer. This report is included as Appendix C.

3 METHODOLOGY

The calculation is performed in three parts as noted in Section 1. A description of each of these parts follows.

3.1 Axisymmetric Analysis

3.1.1 Purpose of Analysis

A 2-D axisymmetric non-linear analysis is performed on the soil beneath Vault No. 4. The intent of this analysis is to train the properties of the soil with the DWPF data to obtain representative settlement displacements for Vault No. 4. The displacements are used in the structural model of the vault.

3.1.2 Model Details

The model is prepared with initial soil properties based on the shear wave velocities from Site Geotechnical Services (SGS) reports (References 7.3, 7.4, and 7.5). Relevant sections of these reports are included in Appendix B.

Settlement is the result of short-term elastic response of the soil layers beneath the structure and long-term secondary soil consolidation. Non-linear elements using elastic properties and kinematic hardening creep behavior are used to model the initial elastic response and the secondary consolidation, respectively.

The lateral extent of the model is sufficient to obtain horizontal boundary conditions that do not affect the area beneath the load application. The overall depth of the model is controlled by bedrock location at elevation -700-ft. The finite element mesh size is increased as a function of distance from the load application. A fine mesh is not needed in areas where the stress gradients are small.

Initial properties for the soil layers are calculated from the shear wave velocity data as discussed above. The initial properties are used as a starting point to verify that the model is working correctly and converging properly.

3,1,3 DWPF Load Analysis

SGS has calculated the DWPF construction load sequence for correlation with settlement monument data. The load application data and monument settlement readings are taken from Reference 7.3 and included in Appendix B.

Following the analysis with the calculated initial properties, the elastic and creep properties are varied until a displacement pattern is obtained that matches actual settlements. The relative relationships of properties from layer to layer are maintained.

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Figure 2 shows the actual settlements measured for the DWPF and the settlement of the axisymmetric model at node 9 (120 ft. from centerline) for the DWPF load application. Node 9 was chosen because it is about midway between the model center and the edge of the DWPF. Three cases were run, representing a high, low and mean settlement. These three cases are shown as the dashed lines in Figure 2.

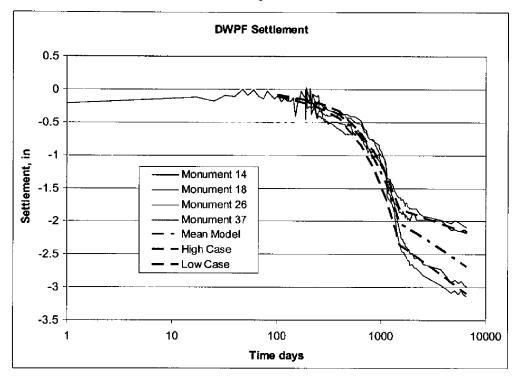


Figure 2. Comparison of DWPF Settlement with Axisymmetric Model Results

A stress contour plot for vertical normal stress and the deformed shape is shown in Figure 3. Note that the vertical scale is greatly exaggerated. The maximum displacement occurs at the model centerline (DMX) and is 0.24-ft. or 2.9-in. at a time of 6500 days.

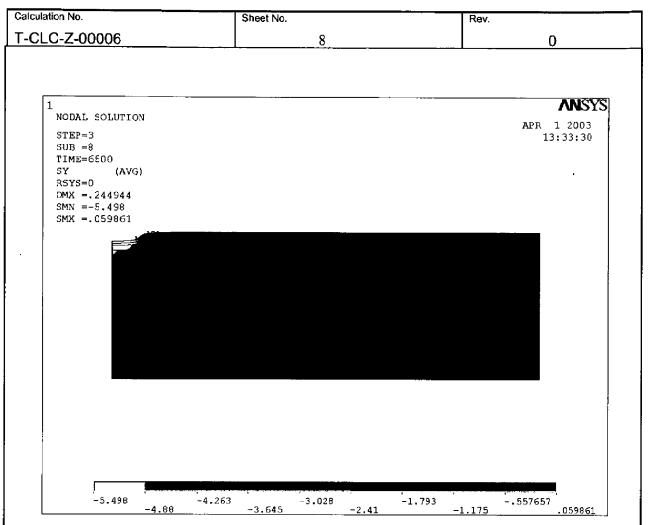


Figure 3. DWPF Non-linear Soil Model Results. This plot shows vertical stress plotted as contours on an exaggerated deformed shape.

3.1.4 Vault No. 4 Load Analysis

The result of the analysis for DWPF loads is a soil model that is representative of elastic and non-linear consolidation behavior of the underlying strata. To use this model to predict long-term static settlement of Vault No. 4, loads are calculated from the proposed closure cap cover plan detailed in Appendix C and applied as surface pressures. The calculated surface pressures vary from 0 to 7.3 kips per square foot (ksf).

Figure 4 shows the response of the model to the vault loads at a time of 10,000 years. The maximum soil pressure is 6.6 ksf. For Vault No. 4 the maximum displacement (DMX) is 0.61-ft., or 7.3-in. A comparison of Figure 4 and Figure 3 shows that the stress at bedrock for vault loads is significantly higher than the stress caused by DWPF loads. This difference does

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not affect the results since the bedrock is stiffer than the overlying strata and its long term consolidation is judged to be negligible.

The calculated displacements are in agreement with geotechnical predictions of initial and long-term settlement. (reference 7.7, attached in Appendix D)

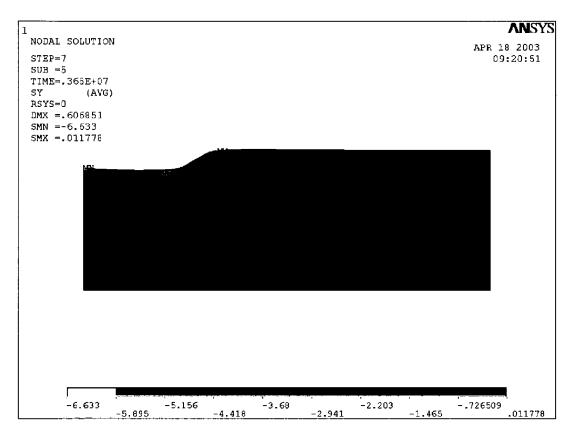


Figure 4. Non-linear Soil Model Results for Vault No. 4.

3.2 Structural Analysis

3.2.1 Purpose of Analysis

Once the settlement displacements over time are obtained from the axisymmetric model, the next step is to determine the effects of both static settlement and earthquake induced differential settlement. The intent is to relate cracking in the vault to settlement and to determine the influence of variations in parameters, such as material properties, settlement

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rate, magnitude and extent of differential settlement, etc. These parameters are discussed in detail later.

3.2.2 Model Description

The structural analysis is performed with a 2-D plane strain model. The choice of a 2-D model is based on a preliminary comparison between 2-D and 3-D models presented in Appendix G. The study showed that stress and strains in the 2-D model are slightly higher than the 3-D model, but only by 5% or less.

An important aspect of the vault construction is that there are construction joints on 30-ft. centers in the base slab and walls. These joints are considered as discontinuities that are locations for crack initiation. The saltstone grout mix is almost an order of magnitude weaker than the structural concrete. It is therefore assumed that the cracks in the grout would tend to follow the pattern initiated by cracking in the structural concrete slab and walls.

The construction joints effectively subdivide the structure into blocks. Because of their aspect ratios (30-ft. wide and 27-ft. tall), the blocks have low bending stress between the joints for the static and differential displacements. If the blocks were larger, say 100-ft., there would be a potential for cracking between joints. There are also joints between the saltstone and the concrete walls. There is no bond assumed between at these joints.

The structural model uses non-linear contact elements for the joints between the walls and the saltstone and at the construction joint locations in the base slab. Crack propagation in the saltstone is modeled with non-linear elements that are elastic under compressive load and have a small elastic tensile strength. When the tensile strength is exceeded, the capacity of the element is zero.

The interface between the soil and the vault is represented by soil spring elements whose properties are based on the soil bulk modulus. These elements are simple unidirectional springs. The displacement boundary conditions are imposed on the structure through these springs to simulate the actual soil behavior in distributing the settlement to the structure. Since displacements are applied to nodal points, applying the displacements directly to the structure would give artificially high results, unless an extremely fine mesh is used.

Figure 5 shows a plot of the model used for the structural analysis. The non-linear interface elements do not appear in graphical representations since they have zero length.

Some of the structural model properties were considered parametrically as shown in Table 1. These properties are bulk modulus for the soil and Young's modulus and cracking strain for saltstone.

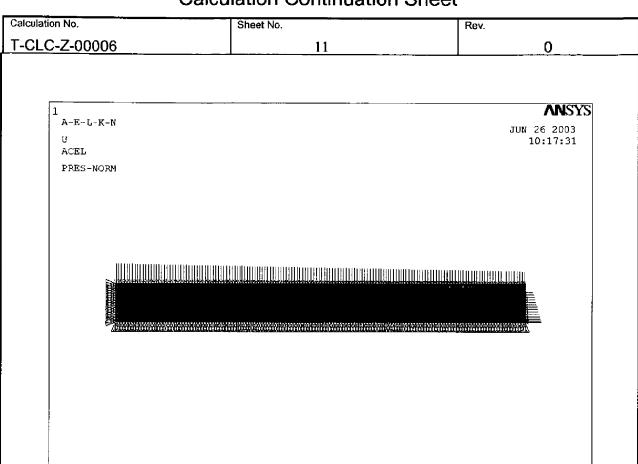


Figure 5. Structural Model. Applied pressures and boundary conditions are shown. The self weight of the structure is applied as a gravity load.

1.989

1.751

1.513

2.227

2.702

2.94

2.464

3.2.3 Static Settlement Analysis

1.038

1.276

The static settlement displacements from the axisymmetric model are applied to the structural model. The model is run by stepping through time with the displacements changed at discrete points in time corresponding to the axisymmetric model results. Since the mesh size is different for the structural model, displacements are linearly interpolated between nodal points of the axisymmetric model. The displacements from the axisymmetric model and the interpolations are shown graphically in Figure 8.

The static settlement rate is varied between the mean, high, and low cases discussed in Section 3.1.3. The settlement rate is used as a variable parameter in the statistical analysis and is given in Table 1.

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Table 1. Parameters used in the Structural Analyses

Parameter	Units	Mean	1 sigma	Coefficient
Basic Parameters				of variation
Soil Bulk Modulus	kcf	30	15	0.5
Grout Compressive				
Strength	psi	524	196.8	0.38
Grout Modulus	ksf	2.05E+05	dependent on sqrt(Comp. Strength)	
	```	-:002:00	dependent on sqrt(Comp.	
Grout Cracking Strain	in/in	1.21E-04	Strength)	
Static Settlement	ft	1.0607	0.53	0.5
Earthquake Parameters	İ			
Differential Settlement				
Magnitude, PC-3	in	0.75	N/A	N/A
Magnitude, PC-4	in	2.75	N/A	N/A
Surface Extent	ft	62	31	0.5
				Uniform
Location	N/A	1 of 7	N/A	Distribution

#### 3.2.4 Differential Settlement Analysis

The major effect of an earthquake on a monolithic structure of this type is to cause settlement beneath the structure. Differential settlement causes structural deformations that can lead to cracking. In the time span being analyzed, there is a likelihood of the occurrence of significant earthquakes.

To quantify the effects of differential settlement, there are three parameters of interest. First, the magnitude of settlement is related to the size of the event. The settlement magnitude for PC-3 and PC-4 events have been calculated by SGS (Reference 7.7 and Appendix D). These values are 0.75 inches for PC-3 and 2.75 inches for PC-4.

The second parameter is the extent of settlement. In reference 7.1, SGS shows the depth to the major earthquake induced settlement to be about 62-ft. for boring ZCP-27. This is the only boring that shows a fairly significant settlement of the six borings listed. Because of this observation, the settlement is treated as a point source with a 2:1 vertical cone of influence. The result of this assumption is a settlement diameter of 62-ft. at the surface. The settlement shape is a standard normal curve per Reference 7.2.

The third parameter is the location of the settlement with respect to the structure. Seven locations for potential differential settlement during earthquakes are chosen for the analysis. These locations are evenly spaced at 50-ft, intervals as shown on Figure 1.

The differential settlements are superimposed on the static settlements at specific times. The times chosen for the differential settlements are 100, 1000, and 5000 years.

The parameters for the differential settlement analysis are also shown in Table 1.

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#### 3.2.5 Structural Analysis Results Format

The results of multiple finite element analyses are summarized on spreadsheets by graphing nodal displacements at the construction joints and at the saltstone-concrete interface. The displacement patterns at the cracks are noted to be predominately linear. The cross sectional area for each crack is calculated by the length times the width divided by 2.

A typical plot of the finite element model deformed shape is shown on Figure 6. Note that the deformed shape plot is highly exaggerated. A corresponding plot showing the crack size vs. height is shown as Figure 7. Figure 7 is produced by plotting

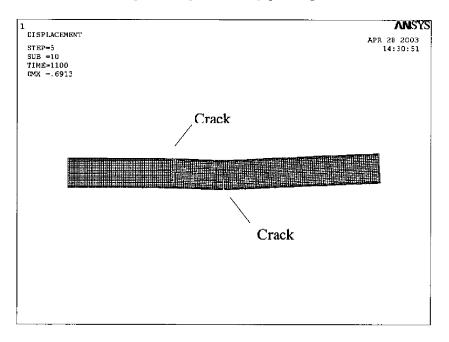


Figure 6. Typical Deformed Shape Plot. Differential settlement is at location 4 with PC-4 magnitude. All parameters are mean values.

For example, for the crack at construction joint 5 shown in Figure 7, the width is about 1.15 inches and the length is about 27 ft. The calculated area is  $1.15 \times 27 \times 12/2 = 186$  in².

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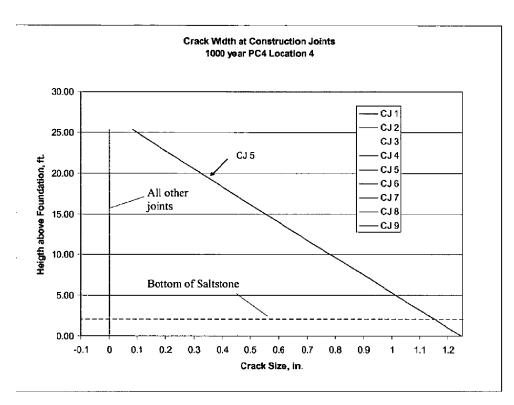


Figure 7. Typical Plot of Crack Size at CJ 5.

#### 3.3 Statistical Analysis

#### 3.3.1 Purpose

The structural analysis generates multiple results for the various parameters discussed above. The results are generated by varying each parameter independently while holding the others at their mean values. To arrive at a statistical result that reflects crack sizes with respect to time, a Monte Carlo analysis is performed.

#### 3.3.2 Reduction of Structural Data

The first step in this process is to reduce the structural data to a form usable for the iterative analysis. Spreadsheet compilations of the structural data relate observed cracks to the parameters. Observed cracks were expressed in terms of cross sectional area for the two types observed: Cracks open at the top at the joint between the walls and the grout, and cracks open at the bottom at the construction joint locations.

There were some cases noted where there were multiple cracks. In these cases the data was simplified by adding the crack areas. The two basic premises in calculating crack areas are

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that static and differential settlement cracks were considered as independent and once a crack opens it remains open. The latter premise is discussed further in Section 4.

The results of the data reduction is a series of mathematical relationships that relate crack size to each of the parameters in Table 1.

#### 3.3.3 Monte Carlo Analysis

Once the relationships between the parameters and the resulting crack areas are established, the next step is to apply statistical distributions to the data. In general, normal, or truncated normal distributions were used. The data was mapped onto these distributions.

The analysis is an iterative process where random numbers are used to set parameters for each iteration in accordance with the mapped distributions. Each iteration establishes values for saltstone modulus and cracking strain, soil bulk modulus, and static settlement rate. Once these parameters are set, the analysis is stepped through 10,000 years in 10 year increments.

As the analysis proceeds through the time steps, a random number generator is used to determine if a seismic event occurs, and if so, the magnitude of differential settlement associated with the event.

If an event occurs, random number generators are used to establish the location and extent of settlement.

The results of the Monte Carlo are a relationship between crack area and time with a statistical distribution. The model is iterated until a low convergence criterion in terms of percentage variation of mean and standard deviation of the results is met. The results are calculated at times of 100, 500, 1000, 2500, 5000, and 10000 years.

#### 3.3.4 Calculation of Crack Size

The output of most interest for flow modeling is the crack width. To determine representive crack widths from the crack areas, a comparison is made between the statistical analysis results and the plots of the structural analysis cracks (see Figure 7). Empirical relationships are established that relate the areas and dimensions of the cracks.

#### 4 ASSUMPTIONS

- 4.1 The starting point for this calculation is that the vault is in an as designed condition with all repairs complete.
- 4.2 Since the soil profiles for the Saltstone Vault area and the DWPF are similar, and the facilities are in close proximity on the site, the settlement data for the DWPF are considered applicable to the Saltstone Vault.
- 4.3 The static settlement for the DWPF is modeled by adjusting non-linear creep and linear elastic response in the axisymmetric model until a representative settlement curve is obtained as shown in Figure 2. This curve is considered the mean. The high and low settlement measurements of the DWPF are assumed to be a one sigma variation each way.

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- 4.4 The loading used for soil cover considers the current information for the entire vault area. The vault area is projected to contain 15 vaults. Appendix G presents the results of various trial load combinations. The loading configuration that caused the greatest static displacement curvature is the inclusion of Vaults No. 1 through 12, but the exclusion of 13 through 15.
- 4.5 Since the vault is symmetric about its centerline in the long direction, only one half of the vault is used in the structural analysis. However, the loads are not entirely axisymmetric about the Vault No. 4 centerline when considering the effects of the other proposed vaults. The static load case is slightly conservative since the half of the vault with the greatest static settlement curvature is used as shown in Appendix G.
- 4.6 Assumptions regarding the coefficients of variation of the input to the analysis are explained in the body of the calculation.
- 4.7 As discussed in Section 3.2, the structural behavior of the model is controlled by preexisting construction joints spaced on 30-ft. centers. Since these joints represent discontinuities in the structure, they provide locations for crack initiation. Because of the length of time considered in this analysis, the waterstop and reinforcing dowels are considered to be ineffective in reducing the cracking or leakage through the joints. These joints are also assumed to control the saltstone cracking in that cracks in the much weaker saltstone will tend to follow the joints in the concrete floor and walls.
- 4.8 The reinforcing dowels in the structure tying the construction joints would initially provide some resistance to crack propagation. However, the displacements of the underlying soil are permanent, so the reinforcing bars are not credited since corrosion is likely given the long time spans in this analysis.
- 4.9 The 2-D model does not consider the effects of cracking initiated by longitudinal construction joints. However, the assumption of 2-D behavior is conservative in that the joint is considered to extend through the width of the structure. If one assumes that a mean differential settlement with radius of 31 ft. occurs at the conjunction of a longitudinal and a transverse construction joint, the result could be a crack in each joint of approximately 62-ft. for a total of 124-ft. The model is conservative in that a transverse crack would be 200-ft. in length across the transverse section.
- 4.10 The loads applied to the structural model are the same loads that are applied to the axisymmetric model. This is done to ensure that there is a consistent load application for the differential settlement case. The static results are checked and the absolute displacements at the base of the structure are found to be about 16% conservative with vault loads included. The actual conservatism is somewhat less, since static settlement cracking is induced by curvature rather than absolute displacement.
- 4.11 There are certain conditions where a differential displacement tends to close a previously opened crack. Credit is not taken for closing cracks since, in the time frame under consideration, they would eventually fill in with solids and not be capable of closing.

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4.12 There is no credit taken for increase in concrete or saltstone compressive strength with time. This is a known effect in concrete, but there is not enough data for saltstone. Since the time span of this calculation is so long, there is no basis for either an increase or decrease of strength with time, so the initial strength is used.

#### 5 RESULTS

#### 5.1 Axisymmetric Analysis

The results from the axisymmetric analysis for DWPF loading are shown on Figure 2. This shows the comparison between actual settlements measured over 10 years and the settlement calculated from the model.

The results from the same model for the vault loads are shown on Figure 8. The mean settlement rate is shown. The symbols represent the discrete settlement points calculated in the axisymmetric model at the various times noted on the legend. The lines connecting the symbols represent displacements interpolated for the finer mesh in the structural model.

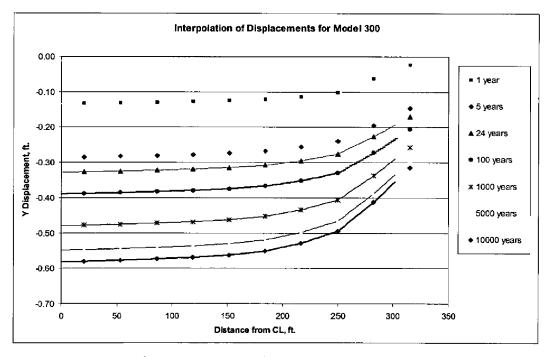


Figure 8. Settlements for Vault 4 from Axisymmetric Model. Symbols show model results and the connecting lines are interpolations for application to the structural model.

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#### 5.2 Structural Analysis

The results of the structural analysis are given in Appendix E. The plots shown indicate the formation of a cracks by the relative displacements between pairs of nodes on each end or surface of the non-linear elements.

A typical plot is shown in Figure 7. The plots are produced by exporting the ANSYS displacement results into EXCEL and plotting the relative displacements between the pairs of nodes associated with the construction joint locations and the saltstone-concrete interfaces. Appendix E shows results for the parameters listed in Table 1. Each parameter is varied independently while the others are held at their mean values.

#### 5.3 Statistical Analysis

The results of the statistical analysis are shown in Figures 9 and 10. These figures represent the two types of cracks observed. The relationship of crack area and width and length is given Table 2.

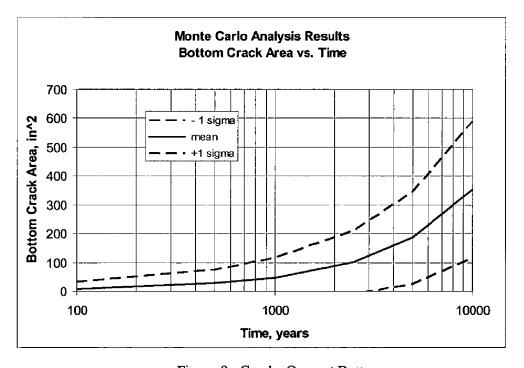
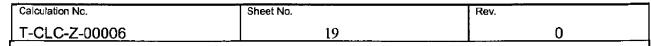


Figure 9. Cracks Open at Bottom



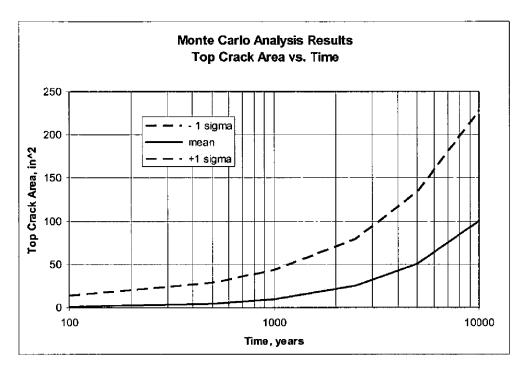


Figure 10. Cracks Open at Top

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Table 2. Summary of crack areas and sizes for specific time intervals.

**Cracks Open at Bottom** 

			Mean Cr	ack Size	+1 sigma (	Crack Size
			Length	Width	Length	Width
Time	Mean	+1 sigma	ft.	in.	ft.	in.
100	8.48	33.02	24.30	0.06	25.74	0.21
500	27.39	75.60	25.42	0.18	27.00	0.47
1000	47.87	116.88	26.54	0.30	27.00	0.72
2500	101.50	211.98	27.00	0.63	27.00	1.31
5000	186.53	347.05	27.00	1.15	27.00	2.14
10000	353.26	588.72	27.00	2.18	27.00	3.63

# Cracks Open at

		Mean Cr	ack Size	+1 sigma (	Crack Size	
			Length	Width	Length	Width
Time	Mean	+1 sigma	ft.	in.	ft.	in.
100	1.14	14.02	27	0.01	27	0.09
500	4.70	28.80	27	0.03	27	0.18
1000	10.00	43.86	27	0.06	27	0.27
2500	25.21	79.94	27	0.16	27	0.49
5000	50.78	133.98	27	0.31	27	0.83
10000	100.55	227.80	27	0.62	27	1.41

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#### 6 CONCLUSIONS

The results of the analysis predict the vault cracking over time as required by the calculation objective. The statistics provide the standard deviation and 95% confidence level for use in the flow net analysis and overall probabilistic evaluation of vault performance. The results are slightly biased towards a conservative estimate of crack size.

#### 7 REFERENCES

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- 7.2 K-CLC-H-00154, "Differential Settlement for CLWR-TEF Product Transfer Trench", Feb. 2000.
- 7.3 WSRC-TR-00072, Rev. 0, "Geotechnical Assessment Report for Defense Waste Processing Facility", February, 1995.
- 7.4 K-CLC-G-00060, Rev. 0, "General SRS Strain Compatible Soil Properties for 1886 Charleston Earthquake", October 1998.
- 7.5 K-CLC-H-00134, "Application of SRS Site-wide PC-3 Spectra to the Tritium Extraction Facility", June, 1998.
- 7.6 K-ESR-S-00002, Rev. 0, "Settlement of Defense Waste Processing Facility Vitrification Building", September 1998.
- 7.7 Memorandum FSS-GED-2003-00005, "Geotechnical Input for Saltstone Vault No. 4 Structural Analysis", May 1, 2003.

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#### 8 BODY OF CALCULATION

# 8.120Axisymmetric Soil Model

The first model uses information from SGS to determine static settlements of the soil beneath the vault. The SGS data in Appendix B forms the basis for the model properties. An ANSYS 2-d axisymmetric model is used.

#### Initial Elastic Properties for Soil Column

$$pcf := lb \cdot ft^{-3}$$

$$v(h) := \begin{bmatrix} 0.31 & \text{if } h \leq 25 \text{ft} \end{bmatrix}$$

$$\left[ -\left(\frac{0.07}{550}\right) \cdot \frac{h}{ft} + 0.49 \right] \text{ if } 25ft < h \le 550ft$$

$$ksi := kip \cdot in^{-2}$$

$$h_0 := 270 ft$$

$$\begin{bmatrix} -\left(\frac{0.07}{550}\right) \cdot \frac{h}{ft} + 0.49 \end{bmatrix} \text{ if } 25ft < h \le 550ft \\ & \text{ksi} := \text{kip in}^{-2} \\ & \text{ksf} := \text{kip ft}^{-2} \\ & -\left(\frac{0.02}{550}\right) \cdot \frac{h}{ft} + 0.44 \end{bmatrix} \text{ if } h > 550ft \\ & \text{kcf} := \text{kip ft}^{-3} \\ \end{bmatrix}$$

$$ksf := kip \cdot ft^{-2}$$

$$\gamma_c := 0.15 kcf$$

$$fps := ft \cdot sec^{-1}$$

$$\gamma_S := 0.12 kcf$$

$$\gamma(h) := (0.0131 \cdot h + 120 \cdot ft) lb \cdot ft^{-4} \qquad \rho(h) := \frac{\gamma(h)}{g} \qquad \qquad tsf := ton \cdot ft^{-2} \\ psi := lb \cdot in^{-2}$$

$$\rho(h) := \frac{\gamma(h)}{\sigma}$$

$$tsf := ton \cdot ft^{-2}$$

$$\gamma_g := 0.1061 \text{kcf}$$

$$G(v_s,h) := \frac{v_s^2 \cdot \gamma(h)}{\sigma}$$

 $G\left(v_{_S},h\right) := \frac{v_{_S}^{\ 2} \cdot \gamma(h)}{\sigma} \hspace{1cm} R := 0.10 \hspace{1cm} \text{Static modulus reduction factor (Massarach, 2002)}$ 

$$E(v_s,h) := R \cdot G(v_s,h) \cdot 2 \cdot (1 + v(h))$$

## Layer 1 250 ft msl to 270 ft.

$$v_s := 1200 \frac{ft}{sec}$$

$$h_2 := 250 ft$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 10 \, \text{ft}$ 

$$h = 10 ft$$

$$G(v_s,h) = 5.377 \times 10^3 \, ksf$$

$$v(h) = 0.31$$

$$E(v_s, h) = 1.409 \times 10^3 \, \text{ksf}$$

$$\gamma(h) = 120.131 \, pcf$$

$$v(h) = 0.31$$
 
$$\gamma(h) = 120.131 \, pcf \qquad \qquad \rho(h) = 3.734 \times 10^{-3} \, \frac{\text{kip-sec}^2}{\text{ft}^4}$$

#### Layer 2 230 ft msl to 250 ft.

$$h_1 := 250f$$

$$\mathbf{h}_1 := 250 \mathrm{ft} \qquad \qquad \mathbf{v}_s := 1100 \frac{\mathrm{ft}}{\mathrm{sec}}$$

$$h_2 := 230 ft$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 30 \, \text{ft}$ 

$$h = 30 ft$$

$$G(v_s, h) = 4.528 \times 10^3 \, \text{ksf}$$

$$v(h) = 0.486$$

$$E(v_s,h) = 1.346 \times 10^3 \, \text{ksf}$$

$$\gamma(h) = 120.393 \, pcf$$

$$\gamma(h) = 120.393 \,\text{pcf}$$
  $\rho(h) = 3.742 \times 10^{-3} \, \frac{\text{kip-sec}^2}{\text{ft}^4}$ 

#### Layer 3 190 ft msl to 230 ft.

$$h_1 := 230 ft$$

$$v_s = 900 \frac{ft}{sec}$$

$$h_2 := 190 ft$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 60 \, \text{ft}$ 

$$G(v_s,h) = 3.041 \times 10^3 \, \text{ksf}$$

$$v(h) = 0.482$$

$$E(v_S,h) = 901.532 \, ksf$$

$$\gamma(h) = 120.786 \, \text{pcf}$$

$$\gamma(h) = 120.786 \,\text{pcf}$$
  $\rho(h) = 3.754 \times 10^{-3} \,\frac{\text{kip·sec}^2}{64}$ 

#### Layer 4 140 ft msl to 190 ft.

$$h_1 := 190 ft$$

$$v_s := 1400 \frac{ft}{sec}$$

$$h_2 := 140 ft$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 105 \, ft$ 

$$G(v_s,h) = 7.394 \times 10^3 \, \text{ksf}$$

$$v(h) = 0.477$$

$$E(v_s,h) = 2.184 \times 10^3 \, \text{ksf}$$

$$\gamma(h) = 121.376 \text{ pcf}$$

$$v(h) = 0.477$$

$$\gamma(h) = 121.376 \text{ pcf}$$

$$\rho(h) = 3.772 \times 10^{-3} \frac{\text{kip-sec}^2}{\text{ft}^4}$$

#### Layer 5 20ft msl to 140 ft.

$$h_1 := 140 ft$$

$$h_2 := 20ft$$

$$h_2 := 20 \text{ft}$$
  $h := h_0 - \frac{h_1 + h_2}{2}$   $h = 190 \text{ ft}$ 

$$h_{top} := h_0 - h_1$$

$$h_{top} := h_0 - h_1$$
  $h_{bot} := h_0 + 100 \text{ft}$   $h_{top} = 130 \text{ ft}$   $h_{bot} = 370 \text{ ft}$ 

$$h_{top} = 130 fc$$

$$h_{bot} = 370 \, ft$$

$$v_s := \frac{h - h_{top}}{h_{bot} - h_{top}} \cdot (2000 \text{fps} - 1600 \text{fps}) + 1600 \text{fps}$$

$$v_s = 1.7 \times 10^3 \text{ fps}$$

$$G(v_s, h) = 1.1 \times 10^4 \text{ ksf}$$

$$E(v_s,h) = 3.226 \times 10^3 \, \text{ksf}$$

$$v(h) = 0.466$$

$$\gamma(h) = 122.489 \, pcf$$

$$\gamma(h) = 3.807 \times 10^{-3} \frac{\text{kip-sec}^2}{\text{ft}^4}$$

#### Layer 6 -100 ft msl to 20 ft.

$$h_1 := 20f$$

$$h_1 := 20ft \qquad \qquad v_s := 2000 \frac{ft}{sec}$$

$$h_2 := -100 ft$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 310 \, \text{ft}$ 

$$G(v_s,h) = 1.542 \times 10^4 \text{ ksf}$$

$$v(h) = 0.451$$

$$E(v_s,h) = 4.475 \times 10^3 \, \text{ksf}$$

$$y(h) = 124.061 \text{ pcf}$$

$$\gamma(h) = 124.061 \,\text{pcf}$$
  $\rho(h) = 3.856 \times 10^{-3} \,\frac{\text{kip-sec}^2}{\text{ft}^4}$ 

Layer 7 -300 ft msl to -100 ft.

$$h_1 := -100ft$$

$$v_s := 0.25(2700 \text{fps} - 2000 \text{fps}) + 2000 \text{fps}$$

$$v_s = 2.175 \times 10^3 \text{ fps}$$

$$h_2 := -300 ft$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 470 \, \text{ft}$ 

$$G(v_s, h) = 1.855 \times 10^4 \text{ ksf}$$

$$E(v_s, h) = 5.306 \times 10^3 \, \text{ksf}$$

$$\gamma(h) = 126.157 \, \text{pcf}$$

v(h) = 0.43

$$\gamma(h) = 126.157 \text{ pcf}$$
  $\rho(h) = 3.921 \times 10^{-3} \frac{\text{kip-sec}^2}{6^4}$ 

Layer 8 -500 ft msi to -300 ft.

$$h_1 := -300ft$$

$$h_2 := -500 ft$$

$$v_S := 0.75(2700 \text{fps} - 2000 \text{fps}) + 2000 \text{fps}$$
  $v_S = 2.525 \times 10^3 \text{ fps}$ 

$$v_s = 2.525 \times 10^3 \, \text{fps}$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 670 \, ft$ 

$$h = 670 \, ft$$

$$G(v_s,h) = 2.552 \times 10^4 \, \text{ksf}$$

$$E(v_S, h) = 7.225 \times 10^3 \, \text{ksf}$$

$$v(h) = 0.416$$

$$\gamma(h) = 128.777 \, pcf$$

$$\gamma(h) = 128.777 \text{ pcf}$$
  $\rho(h) = 4.003 \times 10^{-3} \frac{\text{kip-sec}^2}{\text{ft}^4}$ 

Layer 9 -500 ft msl to -700 ft.

$$h_1 := -500ft$$

$$\mathbf{h}_1 := -500 \mathrm{ft} \qquad \qquad \mathbf{v}_s := 2700 \frac{\mathrm{ft}}{\mathrm{sec}}$$

$$\mathbf{h}_2 := -700 \mathrm{ft}$$

$$h := h_0 - \frac{h_1 + h_2}{2}$$
  $h = 870 \, ft$ 

$$h = 870 \, ft$$

$$G(v_s,h) = 2.977 \times 10^4 \, \text{ksf}$$

$$v(h) = 0.408$$

$$E(v_s, h) = 8.386 \times 10^3 \text{ ks}$$

$$\gamma(h) = 131.397 \, \text{pcf}$$

$$E(v_s, h) = 8.386 \times 10^3 \text{ ksf}$$
  $\gamma(h) = 131.397 \text{ pcf}$   $\rho(h) = 4.084 \times 10^{-3} \frac{\text{kip sec}^2}{\text{ft}^4}$ 

T-CLC-Z-00006 Revision 0	Calculation	Sheet
	Continuation Sheet	26

#### **Equivalent Load for Axisymmetric Model**

DWPF Load per WSRC-TR-00072

$$w_0 := 2.7tsf$$

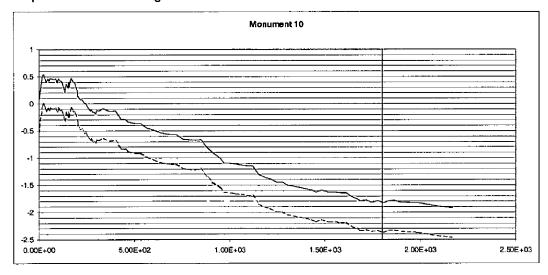
$$w_0 = 5.4 \,\mathrm{ksf}$$

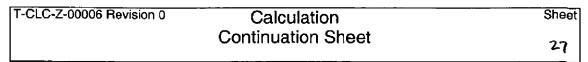
#### **Settlement Data**

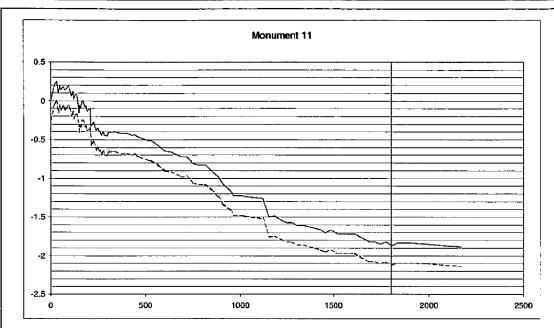
#### Estimate of Load

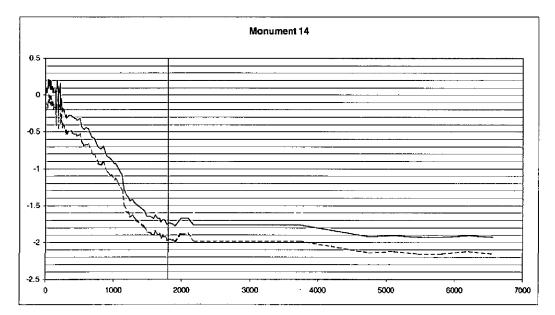
Date	Days	Load, tsf
5/2/1984	0	0
1/1/1985	346	0.5
1/1/1988	1341	2.7

Use 1800 days to estimate elastic response. Monument records for 10,11, and 14 are relevant for this period. Correct readings for initial heave.









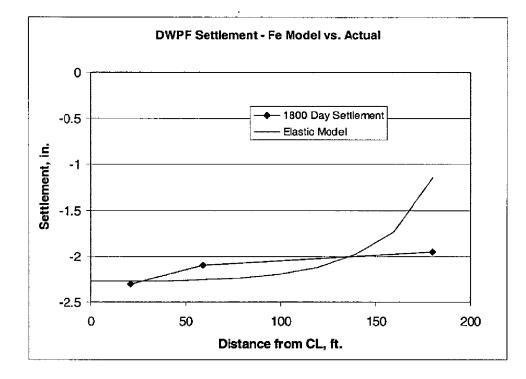
Elastic Settlement at 1800 days

Monument Distance Net Settlement ft in 10 21 -2.3 11 59 -2.1 14 180 -1.95

#### Elastic Model

First run ANSYS model in linear elastic static mode to find best properties for initial (1800 day) settlement. Use E=C1/k and Poisson's ratio from geotech report.

Results from elastic model with k=4:



Model name "ssv7.db"

#### Inelastic (Creep) Model

Long Term Settlement - from EXCEL

Average 14 and 26

 $a := -0.2959 \cdot in$ 

Intercept 2.214565

b := 2.2146in

Slope -0.2959

Calculate initial creep coefficients:

$$\delta_{\gamma}(t) := a {\cdot} ln(t) + b$$

$$t := \frac{t_1}{day}$$

$$t_1 := 10 \text{year}$$
  $t := \frac{t_1}{\text{day}}$   $t = 3.652 \times 10^3$ 

$$\delta_{\mathbf{y}}(t) = -0.213 \, \text{in}$$

$$t := \frac{t_1}{day}$$

$$t_1 := 1000 year$$
  $t := \frac{t_1}{day}$   $t = 3.652 \times 10^5$ 

$$\delta_{\mathbf{v}}(t) = -1.575 \, \text{in}$$

$$t_1 := 10000$$
year  $t := \frac{t_1}{\text{day}}$   $t = 3.652 \times 10^6$ 

$$t := \frac{t_1}{day}$$

$$t = 3.652 \times 10^6$$

$$\delta_{_{\textstyle \boldsymbol{V}}}(t) = -2.257\,\text{in}$$

Average Stress

$$\sigma := 2ksf$$

$$C_1 := \frac{a}{L \cdot \sigma}$$

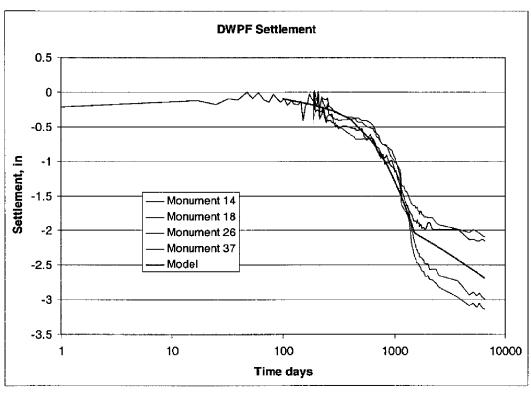
$$C_{1} = \begin{bmatrix} -6.165 \times 10 \\ -6.165 \times 10^{-4} \\ -6.165 \times 10^{-4} \\ -4.932 \times 10^{-4} \\ -3.082 \times 10^{-4} \\ -2.055 \times 10^{-4} \\ -1.233 \times 10^{-4} \end{bmatrix}$$

$$L := \begin{pmatrix} 20 \\ 20 \\ 20 \\ 25 \\ 40 \\ 60 \\ 100 \\ 200 \\ 200 \end{pmatrix}$$

ANSYS Kinemetric time hardening model 2:  $d\epsilon_{cr}/dt = C_1\sigma^{C2}t^{C3}e^{-C4/T}$ 

Try combinations of C1, C2 and C3 to fit data. C4 = 0 since temperature is not a variable. Also modify k for elastic modulus. C3 = -1.0 per Site Geotechnical Services.

#### Results for Node 9



ANSYS File "ssv7pprop"

Calculation Sheet

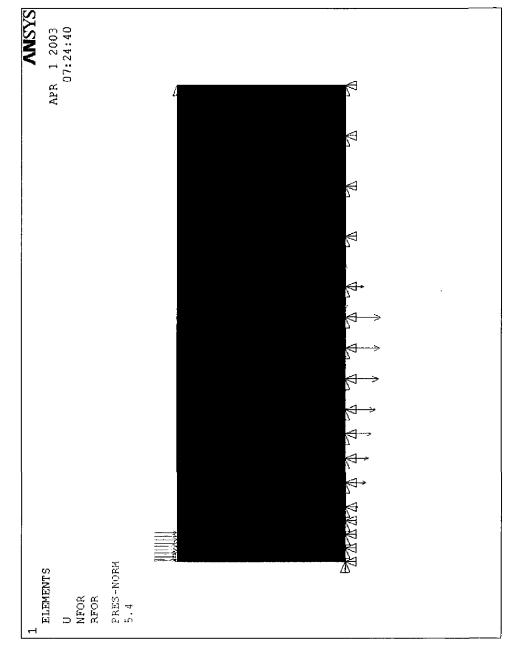
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CASE EO - DWAF Elastic

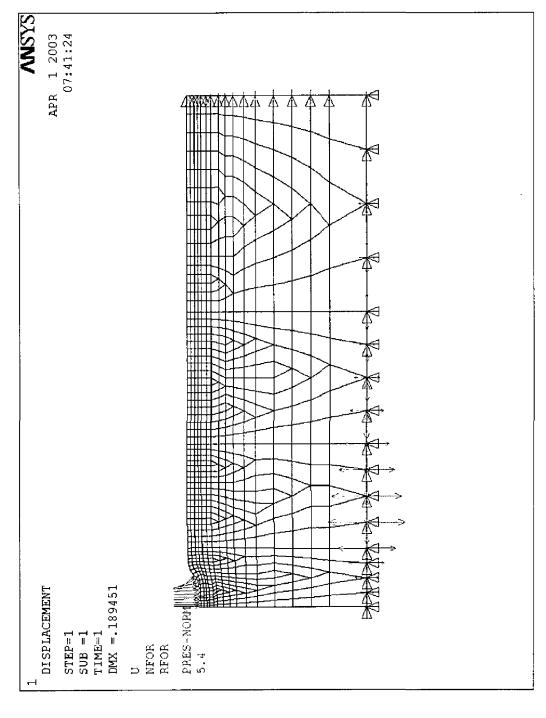
File sev 70

2D - Axisymmetric

Model 1 - 2d Axisymmetric - DWPF Loads Case E0 - Applied Loads

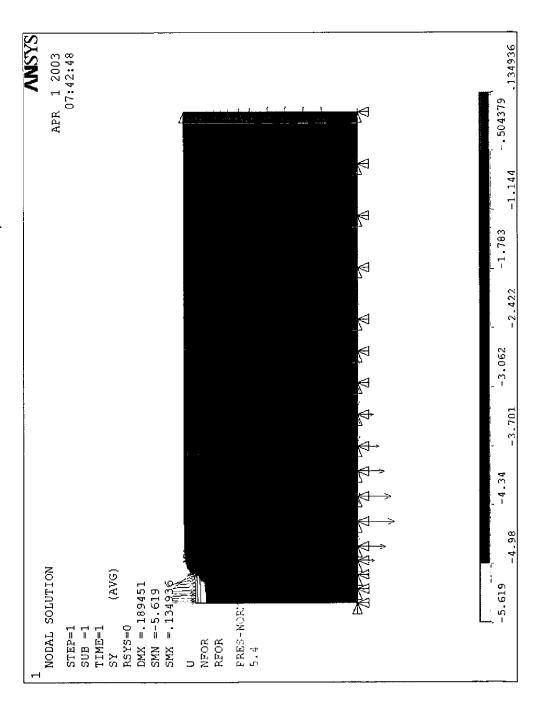


Model 1 - 2d Axisymmetric - DWPF Loads Case E0 - Elastic Deformation



Units - kips, feet

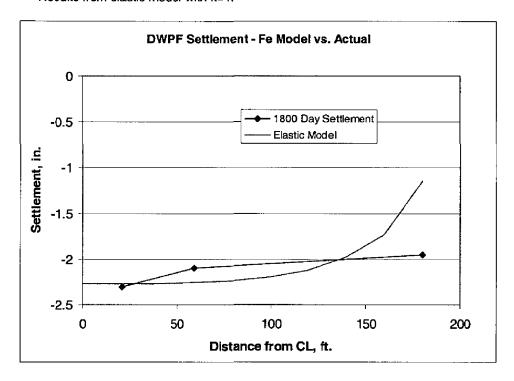
Model 1 - 2D Axisymmetric - DWPF Loads Case E0 - Vertical Stress  $\sigma_{y}$ 



#### Elastic Model

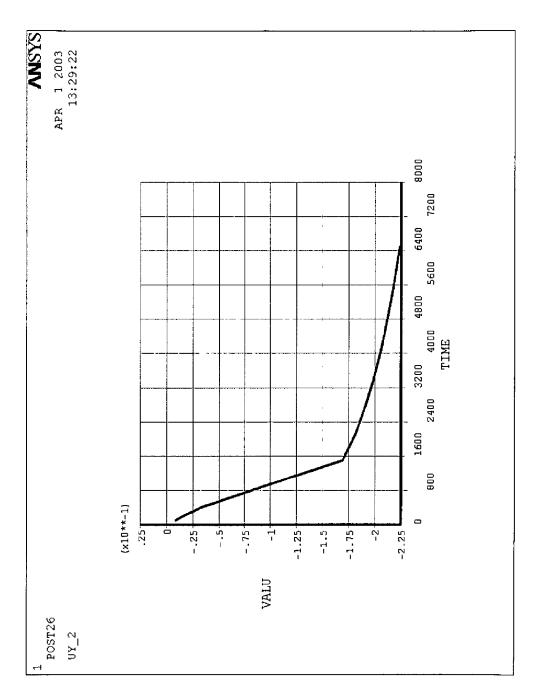
First run ANSYS model in linear elastic static mode to find best properties for initial (1800 day) settlement. Use E=C1/k and Poisson's ratio from geotech report.

Results from elastic model with k=4:

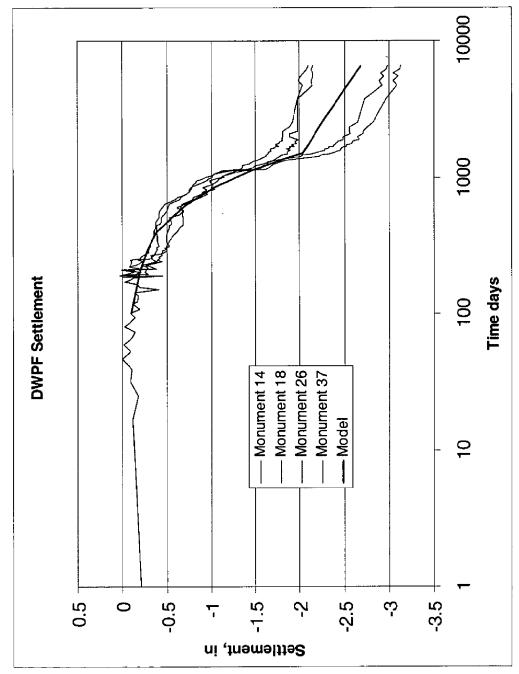


Model name "ssv7.db"

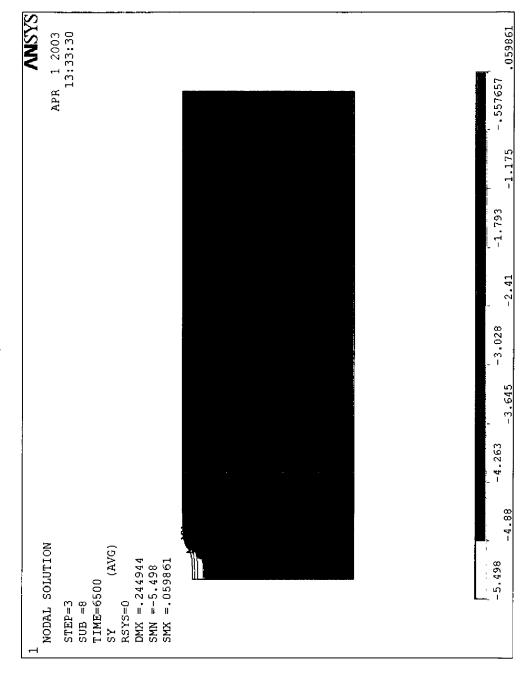
Model 1 - 2D Axisymmetric Creep Case P0 - DWPF Loads Settlement at Node 9



Model 1 - 2D Axisymmetric Creep Case P0 - DWPF Loads Settlement at Node 9



Model 1 - 2D Axisymmetric Creep - DWPF Loads Stress  $\sigma_y$  at 6500 Days



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Case PI 2D AXISYMMETRIC

Loading - All vanits exc. 13, 19, 15

Tapered Load

file ssu 70

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Step 1 apply a small load to start convergence

Step 2 apply the vault 4 load over one
year - weight only

w= 3.19 rest uniform

Step 3 apply timel load over 5 years.

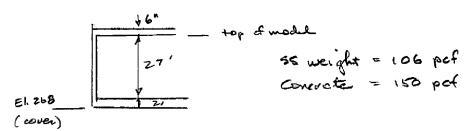
Step 4 allow to everp over 10,000 years

Model 55V1 file load 55V7p1

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							<del></del> -			

Cover weight calculation

Top of model - E.I. 298' for cover cole.



W concrete (200,300')

$$\omega = 0.15[(2)(301.5)(201.5)(301.5)(1.5)(27)+6(98.5)(27)(1.5)]$$

$$\omega = 27310 = 0.450 = 1/62$$

---

saltstone w = 0.106 (27) (6) (98.5) = 166,607 &

Pas 2.14 E/A2

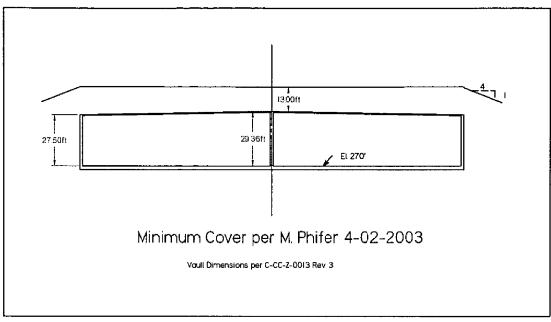
Assume we of roof and sloped concrete fill is covered in soil weight of 120 pef.

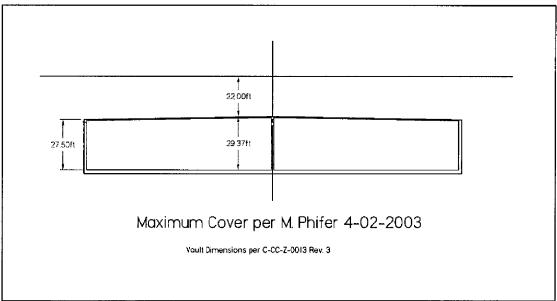
calculate eover weight based on top eled. of 295'

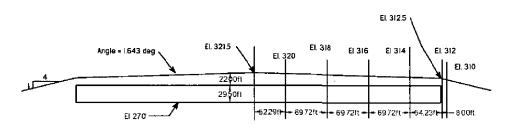
p = (Surface el - 295) (0.12 kef)

Cover weight shown on contour plot

#### Effect of Sloping Cover - Axisymmetric Load Case







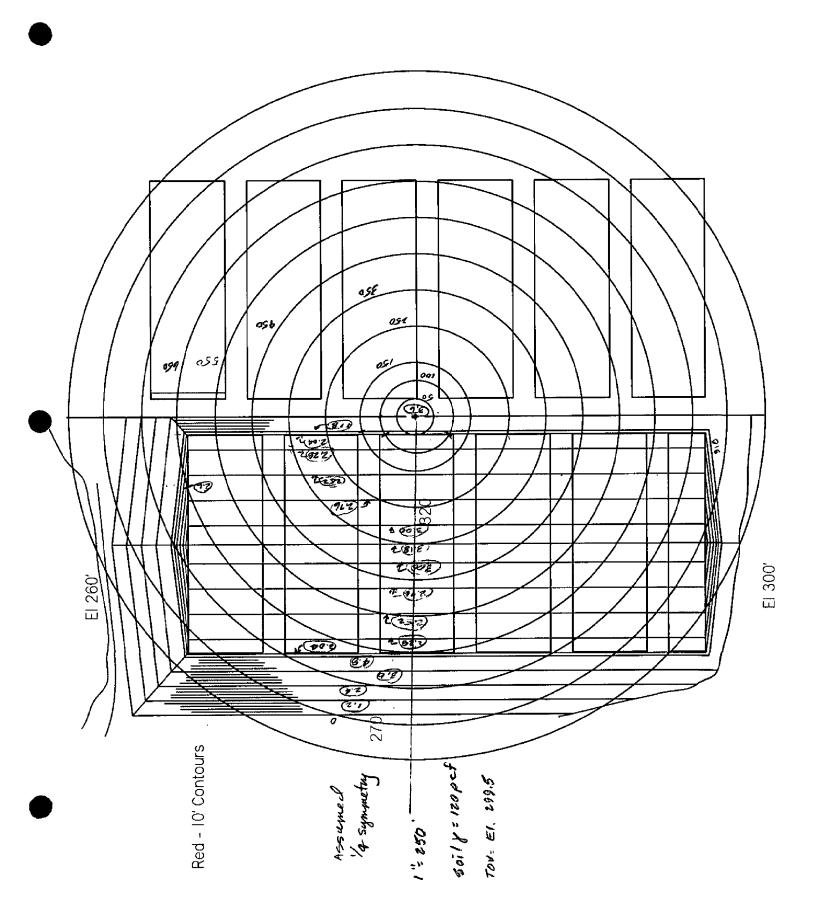
Cover - Longitudinal Section at CL

Similar to Case 3 (All vaults except 13, 14, and 15)

Apply Loads to 2D Axisymmetric Model and resulting displacements to Model 3 - 3D Structural Model.

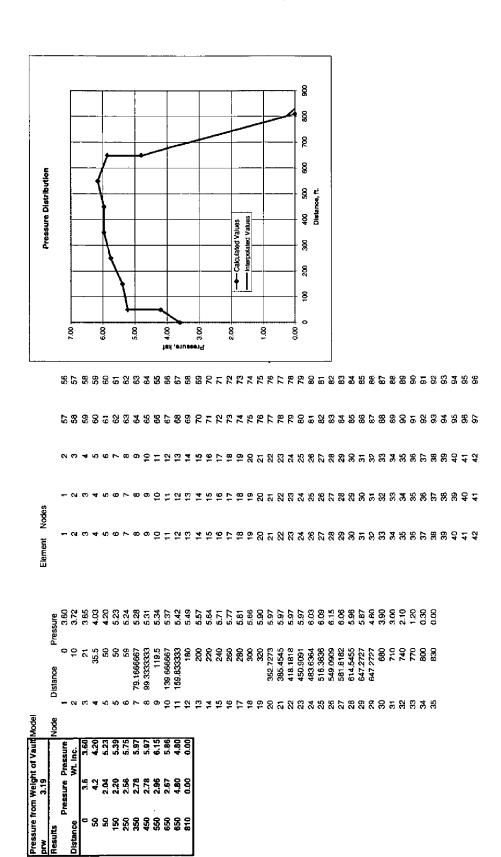
Crack Criteria

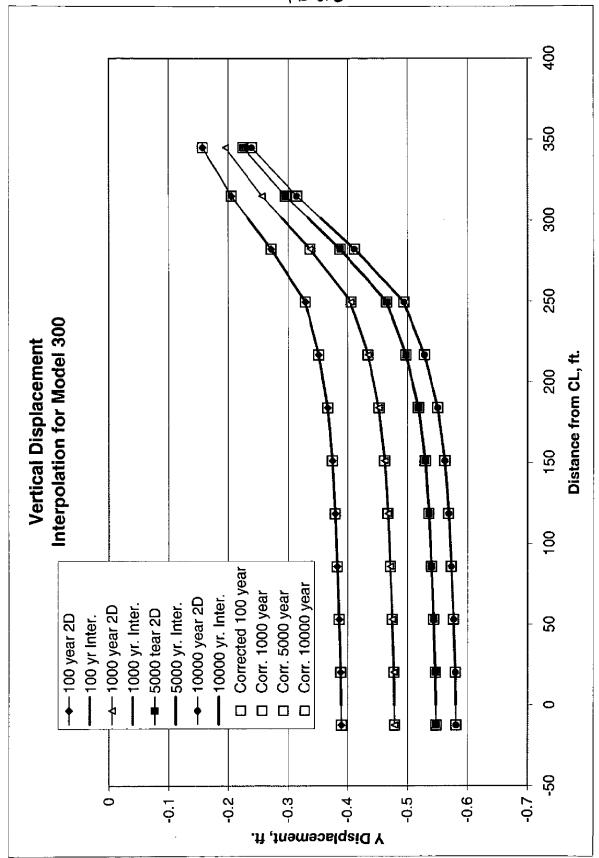
$$f_{tc} = 45.537 \, \text{ksf} \qquad \qquad \epsilon_{tc} := \frac{f_{tc}}{E_c} \qquad \qquad \epsilon_{tc} = 8.696 \times 10^{-5}$$
 
$$f_{tg} = 16.1 \, \text{ksf} \qquad \qquad \epsilon_{tg} := \frac{f_{tg}}{E_o} \qquad \qquad \epsilon_{tg} = 7.861 \times 10^{-5}$$



Pressure Distribution for Sloping Cover

1	-		٠,	<i>~</i> 1																		
		Wt avg	101.52	187.2	227.04	313.92	580.92		1410.6	2.78	60 ft.											
		avg	2.16	2.4	2.64	2.88	3.09			Average	8 to 0 in 1											
		Press.,ksf 2.04	6	87.78	2.25	2.76	ო	3.18		Ą	Slope from 4.8 to 0 in 160 ft.											
	320	Distance P	47	78	98	60	188		208		ឆ											
		Wtavg	101.52	187.2	308.88	261.32		858.92	2.56		Wt avg	125.96	224.64	193.125	193.125	270.72	496.32	499.32	0	2003.21		
		avg	2.16	2.4	2.64	2.78			Average		avĝ	2.68	2.88	3.09	3.09	2.88	2.64	2.28		Average		
		Press.,ksf 2.04	6	82.78	2:25	2.76			4		ress.,ksf	2.6	2.76	က	3.18	თ ·	2.76	2.52	2.0.24 40.24	∢		
	520	Distance	47	78	117	98		336			650 Distance Press.,ksf	47	78	62.5	62.5	8	188	219	Ì	ic/		
		Wtavg	1431	298.75			1729.75	2.20			Wtavg	101.52	187.2	205.92	224.64	194.67	194.67	336.96	578.16	175.7	2199.44	2.96
		avg	2.16	2.39				Average			avg	2.16	2.4	2.64	2.88	3.09	3.09	2.88	2.64	2.51		Average
		Press.,ksf 2.04	6	87.78	25			∢			Press.,ksf	2.02	2.28	2.52	2.76	ო :	ω. 80 α	რ (	9 G	2.5		∢
	150	SiO O	(662.5)	125			787.5				550 Distance P	47	78	78	78	8	8	117	219	70	743	
		Press.,ksf 4.2		<u></u>					J		Wtavg	101.52	187.2	205.92	270.72	241.02	290.46	526.4	70	2.78		
Radius	20	Dis.									avg	2.16	2.4	2.64	2.88	3.09	3.09	2.8		Average		
		Press.,ksf 3.6 All									Press				2.7				٥	∢		
Radius	0	All									450 Distance	47	78	78	96	78	98	188	867	P. C.		





ssv7p1loads.txt

```
ANTYPE, 0
 Load application file for
OUTRES, ALL, ALL
RATE, 1
SFEDELE, ALL, ALL, ALL
NSUBST, 1, 1, 1
TIME, 10
FLST,2,24,2,ORDE,4
FITEM,2,5
FITEM,2,-24
 FITEM, 2, 26
FITEM, 2, -29
 /GO
!*
 SFE, P51X, 1, PRES, , 0.1, , ,
 /STATUS,SOLU
 SOLVE
 NSUBST, 12, 24, 12
 TIME, 364
 FLST,2,24,2,ORDE,4
FITEM,2,5
FITEM, 2, -24
FITEM, 2, 26
 FITEM, 2, -29
 /GO
!*
 SFE, P51X, 1, PRES, , 3.19, , ,
 /STATUS, SOLU
 SOLVE
 NSUBST, 12, 24, 12
TIME, 1825

SFE, 1, 1, PRES, , 7.3, 6.68, , , SFE, 2, 1, PRES, , 6.68, 6.0, , , SFE, 3, 1, PRES, , 6.0, 5.1, , , SFE, 4, 1, PRES, , 5.1, 4.2, , , SFE, 5, 1, PRES, , 5.23, 5.24, , SFE, 6.1 DRES, 5.24, 5.28, , SFE, 6.1 DRES, 5.24, 5.28, , SFE, 5, 1, PRES, , 5.23, 5.24, , SFE, 6.1 DRES, 5.24, 5.28, , SFE, 5, 1, PRES, , , SFE, 5, PRES,
 SFE,6,1,PRES, ,5.24,5.28,
 SFE,7,1,PRES, ,5.28,5.31,

SFE,8,1,PRES, ,5.31,5.34,

SFE,9,1,PRES, ,5.34,5.37,

SFE,10,1,PRES, ,5.34,5.42,
SFE,11,1,PRES, ,5.42,5.49,

SFE,12,1,PRES, ,5.49,5.57,

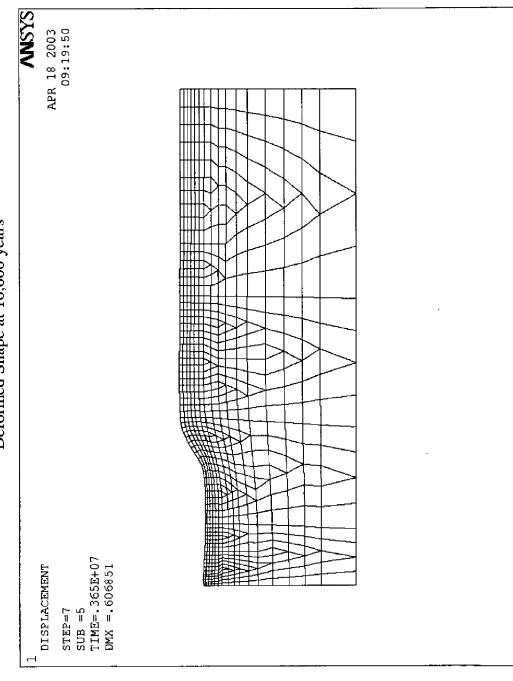
SFE,13,1,PRES, ,5.57,5.64,

SFE,14,1,PRES, ,5.64,5.71,
 SFE,15,1,PRES,
SFE,16,1,PRES,
SFE,17,1,PRES,
SFE,18,1,PRES,
 ,5.71,5.77,
,5.77,5.81,
 ,5.81,5.86,
,5.86,5.90 ,
 SFE, 19, 1, PRES,
 ,5.90,5.97
 SFE, 20, 1, PRES,
SFE, 21, 1, PRES,
SFE, 22, 1, PRES,
SFE, 23, 1, PRES,
 ,5.97, , ,
 ,5.97, , ,
,5.97, , ,
,5.97,6.03,
 SFE, 24, 1, PRES, ,6.03, 6.09,
 SFE,26,1,PRES, ,6.09,6.15, ,
SFE,27,1,PRES, ,6.15,6.06, ,
SFE,28,1,PRES, ,6.06,5.96, ,
SFE,29,1,PRES, ,5.96,5.87, ,
 SFE,30,1,PRES, ,4.80,3.90,
 SFE,31,1,PRES, ,3.90,3.00,
 SFE,32,1,PRES, ,3.00,2.10,
SFE,33,1,PRES, ,2.10,1.20,
SFE,34,1,PRES, ,1.20,0.30,
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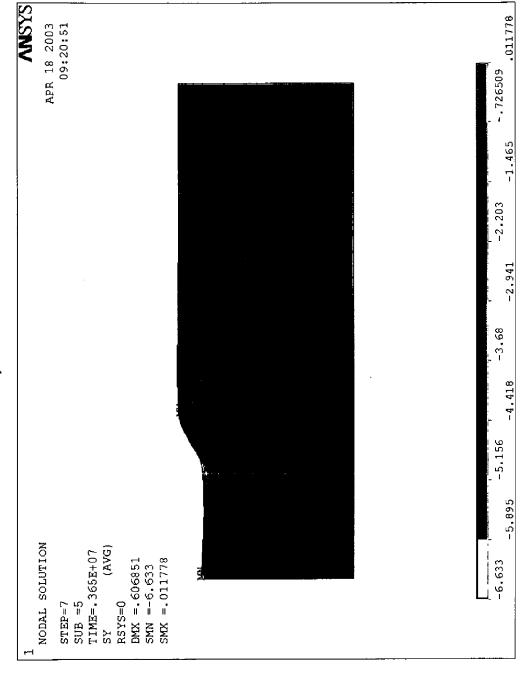
ssv7p1loads.txt

SFE,35,1,PRES, ,0.30,0.00, ,
/STATUS,SOLU
SOLVE
NSUBST,5,20,5
TIME,36525
/STATUS,SOLU
SOLVE
NSUBST,5,20,5
TIME,365250
/STATUS,SOLU
SOLVE
NSUBST,5,20,5
TIME,1.8263e6
/STATUS,SOLU
SOLVE
NSUBST,5,20,5
TIME,1.8263e6
/STATUS,SOLU
SOLVE
NSUBST,5,20,5
TIME,3.653e6
/STATUS,SOLU
SOLVE

Model 70 - 2D Axisymmetric Creep Case P1 – Loads from all Vaults Deformed Shape at 10,000 years



Model 70 - 2D Axisymmetric Creep Case P1 – Loads from all Vaults Stress σ_y at 10,000 years



S	RS Project	ee Cor	سساسا				Calculation N	Vo. . <b>C - 2: -</b> 0 0 €	9 <b>9</b> 6
/	Subject	u w						Sheet No	
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	-880 1 1 vlos		4.0						
	8.7	ructural	Model	ia h	la do	1 / "	ADTIL	200)	·

20 - plane strain

Contact surfaces at construction pinta and concrete-salts tone interface

CONBIN 37 elements used to simulate good avac ling

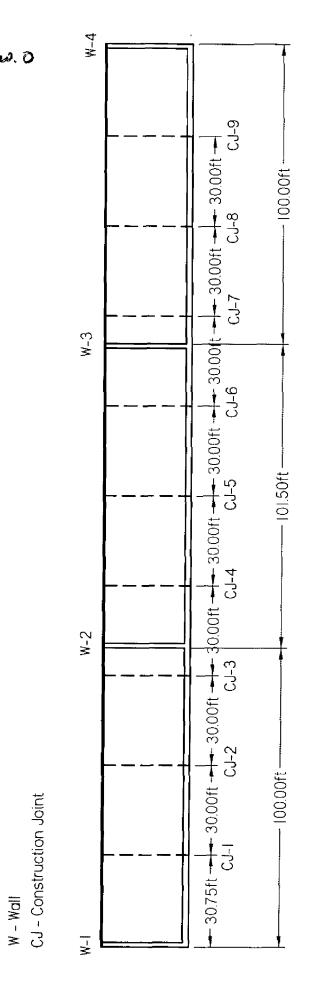
combine 14 elements used for soil approage.

A single mobil was used for all parametric analyses. Properties and boundary conditions were varied for each run.

Pressure and self weight were fixed for all runs. The following paramaters were varied:

- 1. Displacement boundary condition changed with time and differential settlement.
- 2. Soil springs bull modulus varied 3. Grown modulus
- 4. Growt exacting strains

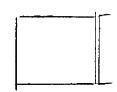
Key for Wall and Construction Joint Locations



	SRS	Project	See	Cover				Calculation N	lo. C-Z -000	06
		Subject	u.	^					Sheet No	- 4
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			•	,	'		,			

CONSTRUCTION JOINTS - walls ; dabs 30'c-c

Shrinkage effect



Estimate crack sige

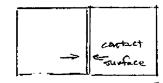
Esh = -4,7 × 10-4 8

a = -4.7x10-4x12 = 30 = 0.13 m

Assume waterstop hordred whase and is not effective over time espan being considered. Shrinkage will aid in initiation of cracking

Apply static displantment to accorded 2.D along

Apply static displanement to precracked 2.D plane strain model.



MODEL 100 ESU100

Saltistone probable crack location

quout-concrete confact

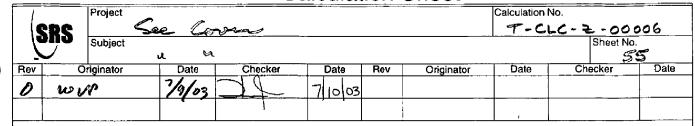
n:29'

Location of surface (TYP)

* Assume .500#/ex , w/c = 0.5 - no ain

Est == 3.5×10-4

Bulec Concrete Mumal, 18th Ed, 1975



MODEL DATA for contact Surfaces

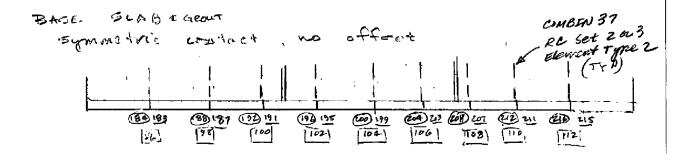
GROUT - CONCRETE CONTACT



Boxed numbers are real constant pairs circled numbers are CONTA 172 element type Undulined numbers are TARHE 169 element type

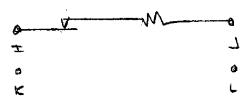
Grout cracking - 30 fe. contacts

OFFSET = 1.49×10⁻⁴ ×30 ft, = 4.47×10⁻³ ft.



	RS		re Cor	س				Calculation N	10. _C- <u>Z -0.</u>	0006
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				)						

use of CONATN 37 element



CPAR = Ux = Ux =

Real Constants

OHVAL = 0.0 0. = FVAL = 0.0001206 .STIF = 3.42E5 FSLIDE = 0.001 START = 0 1.50

E = 2.048 E 5 kaf. K = 2.048 = 105 x 1.67 = 3.42 E 5 K/fe.

May tensile force

Ten 7.5 (Fe = 7.5 N 524 = 172 psi = 24.7 ksf

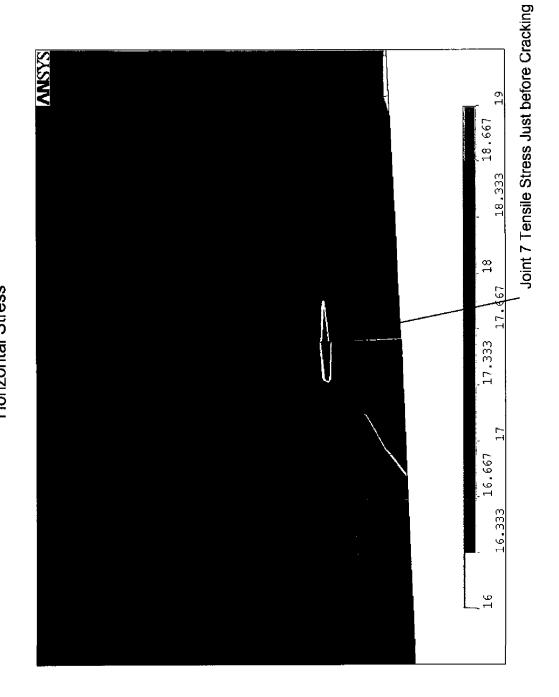
for 1.11ft F= 24.7 x 1.67 = 41.2 Eps/fl.

$$S_{cr} = \frac{41.2 \cdot 1f_1}{3.42E5} = 1.206 \times 10^{-4} f_{b}.$$

Assume tensile stress is consensively in ift length - observation of wortour plots ( see next page)

T-CLC-Z-00006, Rev. 0

Model 300 - Non-Linear Plane Strain [File ssv300] Horizontal Stress



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Results from model show may tensile stress is about 18-19 ksf when cracking occurs. This is in line with the ACT 318 code reduction for lightweight concrete in Section 22.5.6.

ft = 0.75 x 24.7 kg= 18.5 ksf

Therefore we 1.2 × 10 th. as the mean parameter for the COMBIN 37 element.

Variability - fig = 524 psi man.

Ref. WSEC-78-2003-00082 1/28/2008

Have 6 values of 28 day strength  $f'_g = 488,388,471,642,638$   $\bar{\chi} = 524,4$  psi  $6_{\chi} = 98,4$  psi

E = 2.048 x 10 454 wear

Indepently vary tensile strongth and youngs modulus by Nfig - ACI. 318 code provides these values for concrete as functions of Nfia.

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<u>-</u>	Date

sine grout is known subjectively to vary considerably in properties, and only 5 recent data points are available, use 20 for variance

high vatio = 
$$\left[\frac{524.4 + 2(98.4)}{524.4}\right]^{\frac{1}{2}} = 1.17$$
  $C_V = \frac{2(98.4)}{524.4}$  low vatio =  $\left[\frac{524.4 - 2(98.4)}{524.4}\right]^{\frac{1}{2}} = 0.790$   $C_V = 0.38$ 

Vary two parameters 
1.) tousile strength

COMBIN 37 OFF VAL = 9,52×10-5 low

1,206×10-4 high

2.) Growt 4+1 frank

HATEREAL Z 
$$E = 1.619 \times 10^{5} 100$$

2.048 × 105 mean

2.396 × 105 high

COMBIN 37  $E = 2.70 E = 100$ 

3.42  $= 5$  mean

4.00  $= 5$  high

SH		ee Cos	eu				Calculation N	C-Z-000	
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			,						

top LOAD

varies from 24.5 to 15.5 ft.

 $p_1 = 24.520.120 = 2.94 \text{ Ksf}$  $p_2 - 15.5 \cdot 0.120 = 1.86 \text{ Ksf}$ 

decrease linearly from conton to edge

Model height above base slab: 27'

# Displacement interpolation Model 70 => Model 300 File: model 300, x 15

						7	r; \	-2	:	۳	٠	اله د	ب	2	3	98	٥,	×	1	5																														
0000 vear	, , , ,	0.54272	-0.52952	-0.51897	-0.52502	0.53194	0.54239	0.54582	0.54931	0.55313	0.55740	0.56181	0.00010	-0.57337	-0.57623	-0.57844	-0.58038	-0.58109	0.58001	0.57691	-0.57330	0.56666	0.20230	D 52824	0.49445	-0.41203	-0.31475				_ 16 dV 0000	-0.58109l	-0.58001		3.35-05		96000:0-	-0.00090	0.00084	-0.00078	-0.00072	090000	-0.00054	0.00048	0.00042	0.00030	-0.00024	-0.00018	0.00013	-0.00003
XOO vears 1		-0.51092 -0.50623		0.48900	0.49514	0.50192	-0.51208	0.51533			-0.52614	0.53023	0.53421			-0.54555	0.54731	-0.54787	0.54675			55555	0.02577	0.40760	-0.46574	-0.38769	-0.29577				If Mean OO	-0.54787		!	3.42E-05		660000	-0.00093	-0.00087	0.00081	0.00075	0.00062	-0.00056	0.00050	0.00044	0.00031	-0.00025	-0.00019	0.00013	0.00003
1000 vears 5000 vears 10000 vear	1	-0.44481 -0.44085		Ċ			0.44908		·	•			0.45783			-0.47721	-0.47858				•		0.46232				0.25627				eav 0000t seev 0005 seev 000t	-0.47884			3.7E-05	=	70100		<u>.</u>		0.00081	0.00067			-0.00047	0.00034	0.00027		0.00014	
100 years 10		-0.35941	·	_	·		0.36778			-			0.38242			-0.38904	-0.38992	_			•		0.37400			-	-0.20515				7 100 years 10	g.		!	4.033E-05	X Displacement	-0.00117	Ė		-	9000		-		-0.00052		·	-	0.00015	
24 vears 16		-0.30033	-0.29441	-0.29052	-0.29735	-0.30334	-0.30656	-0.31373	-0.31560	-0.31748	-0.31947	-0.32147	-0.3233/	-0.32638	-0.32744	-0.32815	-0.32869	-0.32830	-0.32691	0.32445	-0.32169	-0.31853	0.90747	10.00.47	-0.27566	-0.22633	-0.16971			>	Y 2d woons 16	_	-0.32691		4.25E-05	×	-0.00123	-0.00116	0.00108	0.00100	0.00093	-0.00077	-0.00070	-0.00062	0.00054	0.00039	-0.00031	-0.00024	-0.00016	-0.00004
S years		-0.26014 -0.25824	0.25544	-0.25267	-0.25965	-0.26551	0.27347	-0.27537	-0.27697	-0.27852	-0.28015	-0.28175	-0.28325	-0.28556	-0.28632	-0.28680	-0.28711	-0.28653	-0.28509	-0.28275	-0.28012	0.27716	0.27.329	0.020760	-0.23942	-0.19550	-0.14556					.0.29653			4.4E-05		-0.00128	-0.00120	-0.00112	0.00104	0.00096	-0.00080	-0.00072	0.00064	-0.00056	0.00040	-0.00033	-0.00025	0.00017	0.00004
1 year		-0.07452	-0.07915	-0.08741	-0.10682	-0.11943	-0.13121	-0.13810	-0.13892	-0.13915	-0.13911	-0.13893	0.13867	0.13794	-0.13746	0.13691	-0.13627	-0.13503	-0.13352	0.13173	-0.12960	-0.12718	42624	0 17408	0.10238	-0.06274	-0.02418					. year .		!	4.61E-05		-0.00134	-0.00125	-0.00117	0.00109	10100.0	-0.00084	-0.00076	-0.00067	-0.00059	0.0000	-0.00034	-0.00026	0.00018	-0.00005
		-365	3 \$	-329.5	-315	900,	-265.667	-245.5	-225.333	-205.167	÷	8	÷	. 105	Ŕ	ģ	45	-12.2727	20.4545	53.1818	85 9091	118.6364	0000	916 8489	249.5455	282.2727	315			mmetry	Clebance	~ ~			Angle		ľ					_								
Y displacement, ft. Distance	Sea no	0 5	2 5	35.5	22	59	/9991.8/	119.5	139.6667	159.8333	8	8 5	8 8	290	280	300	350	352,7273	385.4545	418.1818			200000				980			taxis of syl		3		•	∢	Height	29.00	27.20	25.40	23.60	2.50 9.00 9.00	18.20	16.40	14.60	12.80	9.26	7.40	5.60	3.80	8 2
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	000 years	0.581	200	-0.581	-0.580	0.580	0800	-0.580	-0.580	-0.580	0.580	-0.580	0.580	0.579	-0.579	-0.579	-0.579	-0.579	-0.578	-0.578	-0.578	-0.578	0.076 0.076	0.570	-0.577	-0.577	-0.577	-0.577	-0.576	-0.576	0.576	0.576	-0.575	-0.575	0.575	-0.575	-0.574	-0.574	-0.574	-0.574	0.573	-0.573	-0.573	-0.573	-0.572	-0.572	-0.572	-0.571	0.571	-0.571
	1000 years 5000 years 10000 years	-0.547	0.547	-0.547	-0.547	0.547	744.0	-0.547	-0.547	-0.547	-0.547	0.547	0.546	0.546	-0.546	-0.546	-0.546	-0.545	-0.545	-0.545	0.545	-0.545	0.44 0.44	200	0.544	-0.544	-0.544	-0.543	O.543	D.543	540.0	0.545	-0.542	-0.542	0.542	0.541	-0.541	-0.541	φ. 14.	0.541	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.540	-0.540	-0.540	0.539	0.539	-0.539	-0.538	0.538	-0.538
	00 years 50	-0.478	0.478	-0.478	-0.478	0.478	6.478	-0.478	-0.478	-0.478	-0.478	-0.477	747	-0.477	-0.477	-0.477	-0.477	-0.476	-0.476	-0.476	-0.476	-0.476	9/4/0	0.470	-0.475	-0.475	-0.475	-0.474	-0.474	0.474	4/4/0	0.474	-0.473	0.473	6.473	0.473	-0.472	-0.472	0.472	0.472	0.472	-0.471	0.471	-0.471	0.471	-0.470	-0.470	-0.470	0.470	-0.469
	100 years 10	-0.389 -0.380	389	-0.389	-0.389	-0.389	9 9 9 9 9 9	0.389	-0.389	-0.389	0.388	0.388	9 6	388	-0.388	-0.388	-0.387	-0.387	-0.387	-0.387	0.387	-0.387	/ pg (	986	986	-0.386	-0.386	-0.386	-0.385	-0.385	25.0	-0.385	-0.385	-0.384	0.384	0.384	0.384	-0.384	-0.383	-0.383	283	0.383	-0.382	-0.382	0.382	0.382	-0.382	0.381	6.38 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	0.381
	24 years 10	-0.328	0.328	-0.328	-0.327	-0.327	- C-	0.327	-0.327	-0.327	-0.327	-0.327	72.0	928	-0.326	-0.328	-0.326	-0.326	0.326	0.326	0.325	0.329	2 C	ָרָי בְּיִלְי	9250	-0.324	-0.324	-0.324	-0.324	0.324	0.324	10.00	-0.323	-0.323	0.323	0.323	-0.322	-0.322	-0.322	-0.322	0.325	-0.321	-0.321	-0.321	Q 6	0.32	-0.321	-0.320	0.320	-0.320
<u>v</u>	ars	-0.286	95.0	-0.286	-0.286	-0.286	282	-0.285	-0.285	-0.285	-0.285	-0.285	287.0	0.284	-0.284	0.284	0.284	-0.284	0.28 0.28	0.284	-0.284	- C283	0.283	0.263	0.283	-0.283	-0.283	-0.282	-0.282	-0.282	-0.282 -0.282	0.282	-0.282	-0.281	0.281	0.281	-0.281	-0.281	-0.281	0.280	-0.280	-0.280	-0.280	-0.280	0.280	0.279	-0.279	0.279	0.279	-0.278
Calculated Displacements	1 year 5 y	6.13 4.54 5.54	25	-0.134	-0.134	0.134 2.54 2.54	\$ 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	-0.134	-0.134	0.134	-0.133	-0.133		0.133	-0.133	-0.133	-0.133	-0.133	-0.133	0.133	6.132 2.23	2 6	2 5	130	0.132	-0.132	-0.132	-0.131	-0.13	9	5 Q	9 6	-0.131	0.131		6.13 8.00	-0.130	-0.130	-0.130 -0.130	9 6	9 6	-0.129	-0.129	-0.129	0.129	0.129	-0.129	-0.129	-0.128 -0.128	-0.128
ordinate: Ca Die	i =	0.000	3.45	5.4	7.35	e e	9 2	15.15	17.1	19.05	2	8 3	2.4.5 0.00	28.8	30.750	30,75	32.75	34,750	36.750	38.750	40.750	5.73	44.750 48.750	48.750	50.750	52.75	54.750	56.750	58.750	60.750	96.730	64 750	66.75	68.750	70.750	74.750	76.750	78.750	80.750	82.750	86.750	88.750	90.75	90.75	92.600	96.300	98.150	100.000	101.500	105.350
Soil Node Coordinate: Calculated	NODE	30001	51012	51013	51014	51015	51015	51018	51019	51020	51021	51022	51023	51025	50633	51011	50635	50636	50637	50638	50639	04906	50649	50643	50644	50645	50646	50647	50648	50634	50663	506B4	50685	20686	50687	50689	50690	50691	50692	50693	50695	96909	50682	51056	51060	51058	51057		50604	

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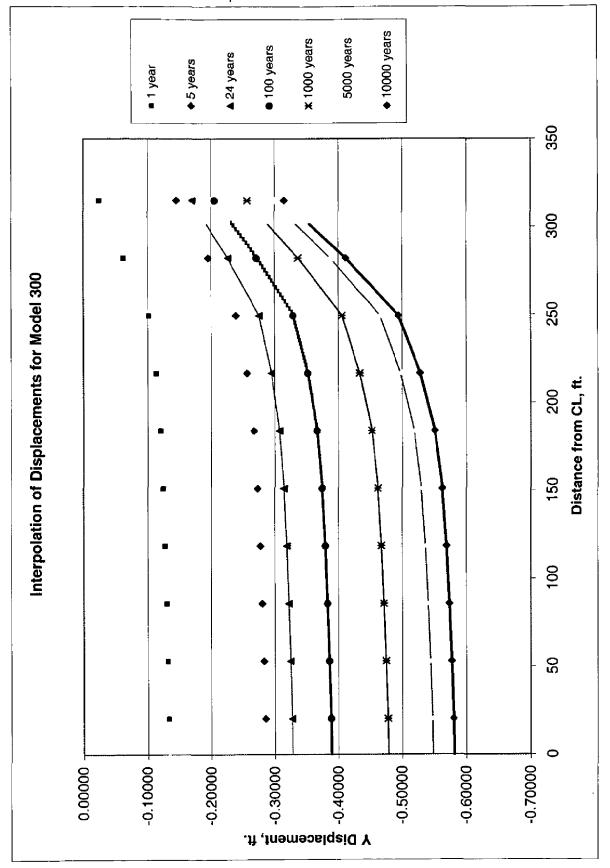
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52126 52125 52123 52123 52120 52119 52118 52117 52115 52115 52115	52603 52602 52601 52600 52599 52598 52596 52596 52596 52596 52593 52593 52591 52590 52591
52008 52007 52006 52005 52003 52003 52000 51999 51999 51996 51996 51996	52098 52097 52096 52095 52094 52093 52090 52090 52088 52088 52086 52086 52086
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51633 51631 51631 51620 51628 51627 51625 51625 51622 51623 51623 51622 51623	51867 51865 51865 51863 51860 51859 51858 51856 51856 51856
53082 53081 53080 53079 53077 53077 53074 53074 53072 53070 53070	51604 51603 51602 51601 51599 51598 51597 51596 51595 51596 51595 51593 51593 51593 51593 51593
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53561 53560 53559 53557 53554 53554 53550 53550 53550 53550 53550 53550 53550 53550 53550 53550 53550 53550 53550 53550 53550	53110 53109 53109 53108 53107 53105 53103 53100 53100 53098 53098
52336 52334 52334 52333 52331 52330 52329 52328 52328 52328 52324 52324 52324	53321 53320 53319 53318 53317 53314 53313 53313 53310 53309 53309
ო	4
51393 51392 51391 51380 51388 51386 51384 51383 51382 51383	52364 52363 52362 52361 52360 52358 52358 52357 52356 52355 52354 52354 52353 52353 52353 52353 52353 52353 52353
51122 51120 51120 51119 51117 51115 51112 51112 51110 51109	51365 51364 51363 51362 51361 51358 51355 51355 51353 51353
-	Q

Nodes @ construction joints

## T-CLL-2-00006 ( Res. 0

## Pressure on End Wall

Ko 0.43 dens 0.12 kcf

Distance	Pressure	
from Surface		
ft	ksf	
15.50	0.80	
17.30	0.89	
19.10	0.99	
20.90	1.08	•
22.70	1.17	
24.50	1.26	
26.30	1.36	
28.10	1.45	
29.90	1.54	0.30 usf
31.70	1.64	1     \
33.50	1.73	
35.30	1.82	27'
37.10	1.91	
38.90	2.01	
40.70	2.10	
42.50	2.19	base 21 2.30 Ksf
43.50	2.24	Slab
44.50	2.30	

Calculation No. T-CLC-Z-00006				Sec Cover						Project	SRS	
7	Sheet No.							b.	<b>,</b> -	Subject	<b>√</b>	_ <u></u>
Date	Checker	Date		Originator	Rev	7(003	Checker	/9/03		originator O	ww	Rev Ø
-			1			11/0/03		703 -			00 51	

with the soil nodes displaced to the long term desplacements, apply the top loading. The soil displacement pattern will provide a constraint on total base slab deformation, while top load will cause representative external stress in the model, particularly for differential displacements.

Two cases are provided:

Case 1 soil displacements only.
Case 2 top bad only:
Case 3 top bad and soil displacements

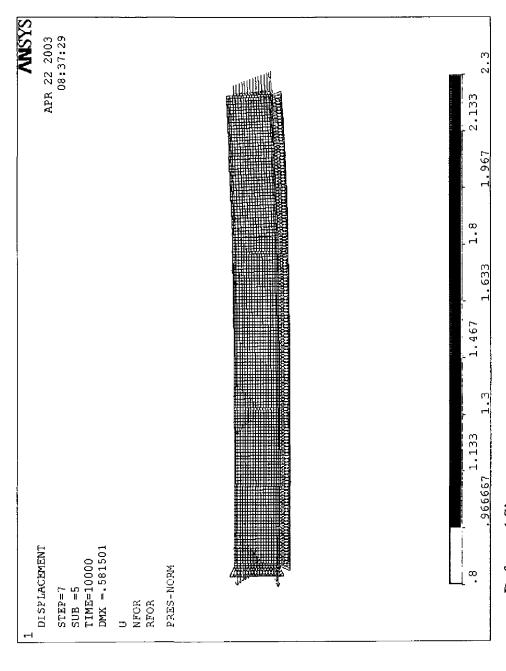
#### Notes:

- 1.) The model evacles at construction joint 7 when the displacements increase from the woody. pattern to the sood year pattern. The wack size is the same for cases I and 3.
- case 1 and 3. This is not significant in terms of the nature of the overall analysis. The may displacement is 8.1 in which is in the range predicted by \$45. (7 to 9 in, verbal per meeting of 03/31/03).

Assumption - the use of a vertical plane as the symmetric boundary condition introduces an artificially migh rigidity for the displacements, use a plane perpendicular to the sail curretive instead

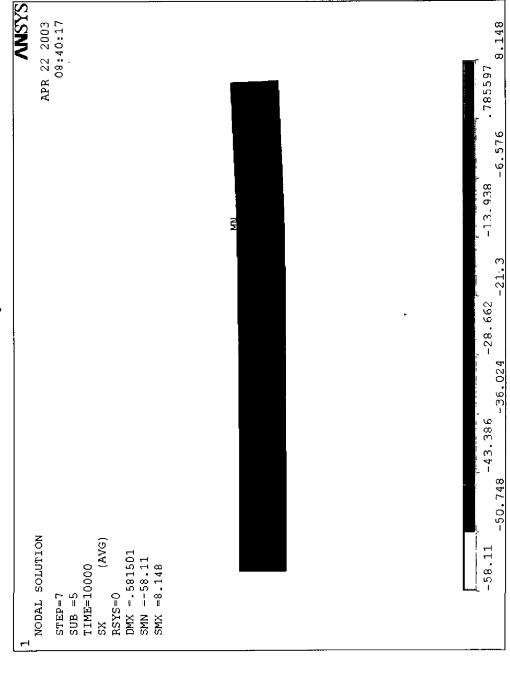
from 55V 7

Model 300 – Non-linear Plane Strain Case 1 – No Top Pressure



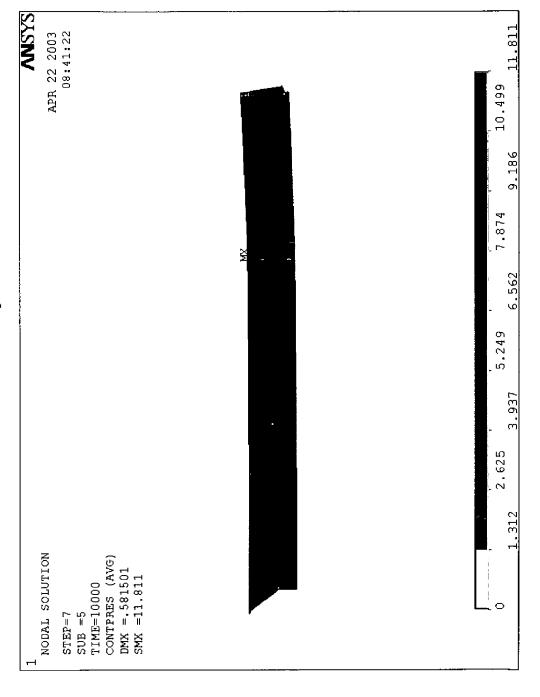
Deformed Shape

Model 300 – Non-linear Plane Strain Case 1 – No Top Pressure



Horizontal Stress  $\sigma_x$ 

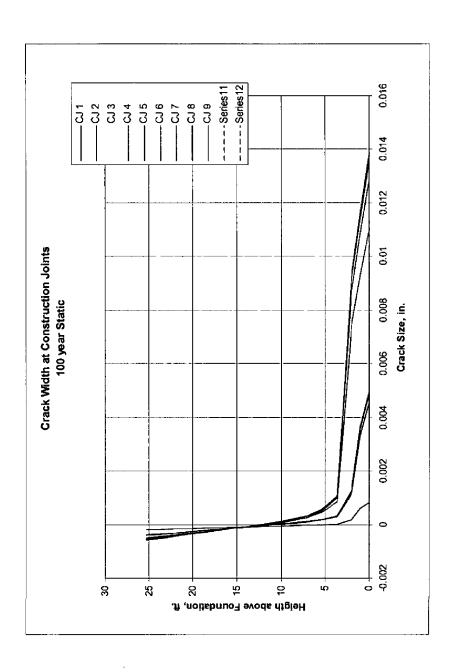
Model 300 – Non-linear Plane Strain Case 1 – No Top Pressure



Contact Pressure

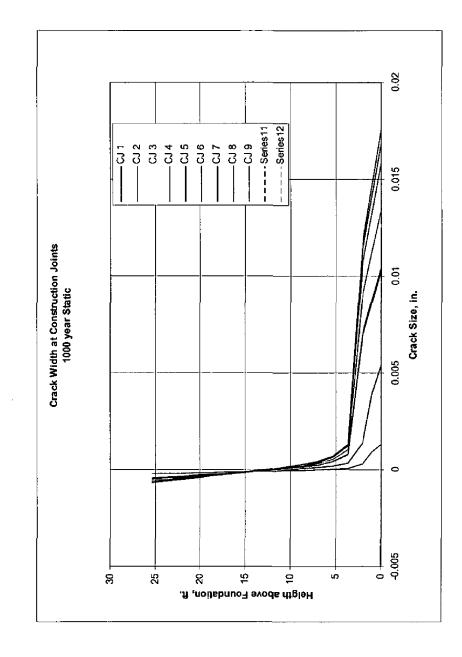
T-CLC-Z-00006, Rev. 0

Model 300 – Non-linear Plane Strain Case 1 – No Top Pressure



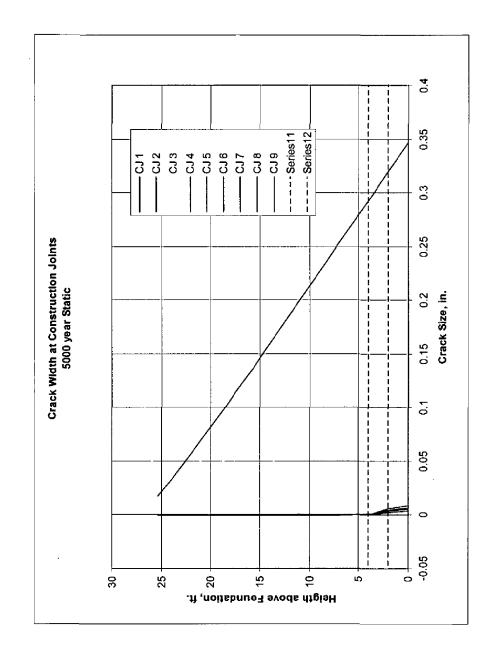
T-CLC-Z-00006, Rev. 0

Model 300 – Non-linear Plane Strain Case 1 – No Top Pressure



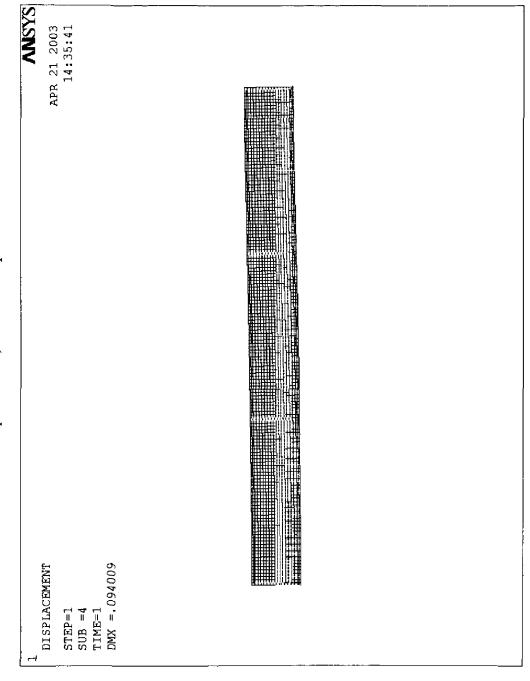
T-CLC-Z-00006, Rev. 0

Model 300 – Non-linear Plane Strain Case 1 – No Top Pressure



T-CLC-Z-00001, Rev. 0

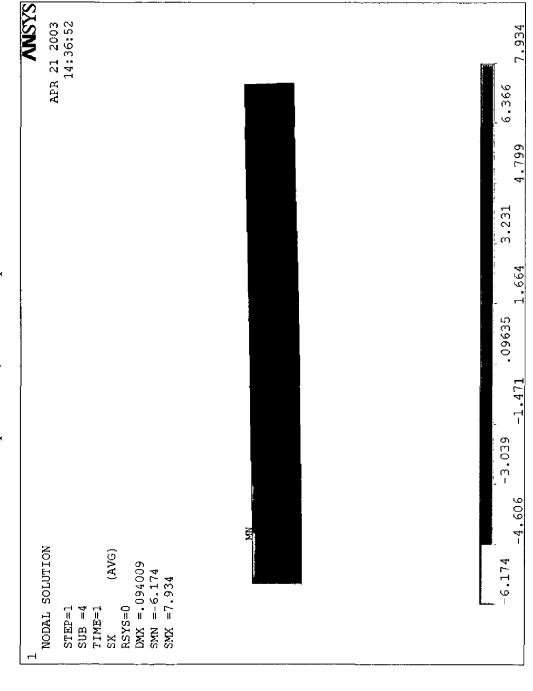
Model 300 – Non-linear Plane Strain Case 2 – Top Pressure, No Soil Displacements



Deformed Shape

T-CLC-Z-00001, Rev. 0

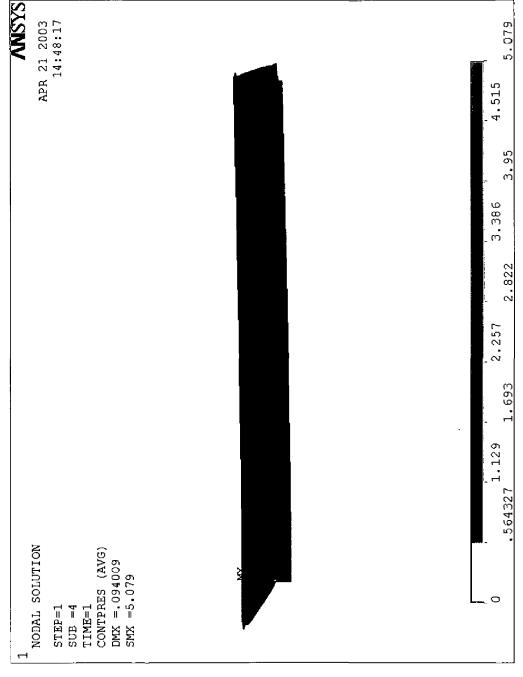
Model 300 – Non-linear Plane Strain Case 2 – Top Pressure, No Soil Displacements



Horizontal Stress  $\sigma_x$ 

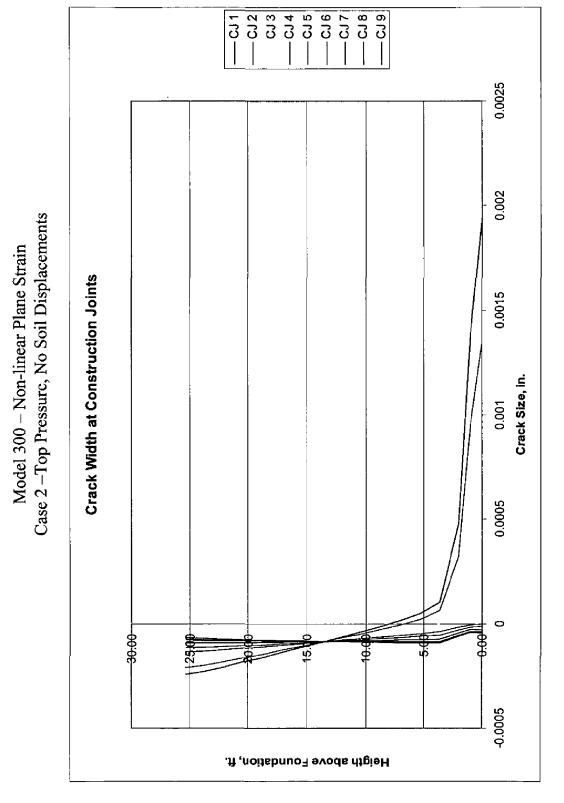
T-CLC-Z-00001, Rev. 0





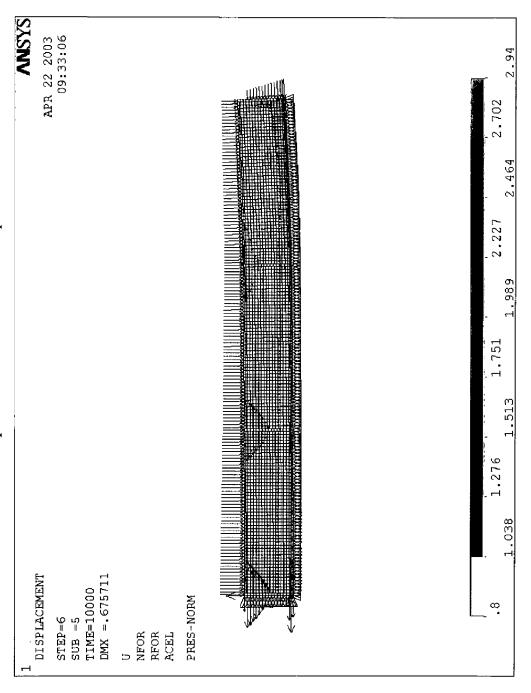
Contact Pressure

T-CLC-Z-00001, Rev. 0



T-CLC-Z-00001, Rev. 0

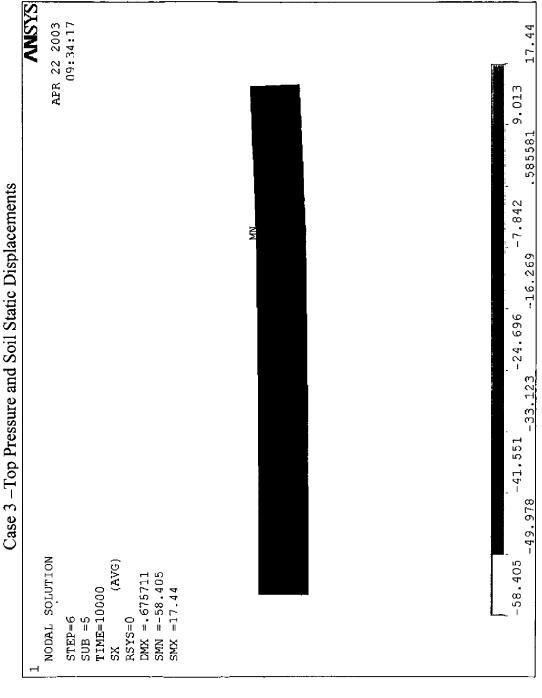
Model 300 – Non-linear Plane Strain Case 3 – Top Pressure and Soil Static Displacements



Deformed Shape



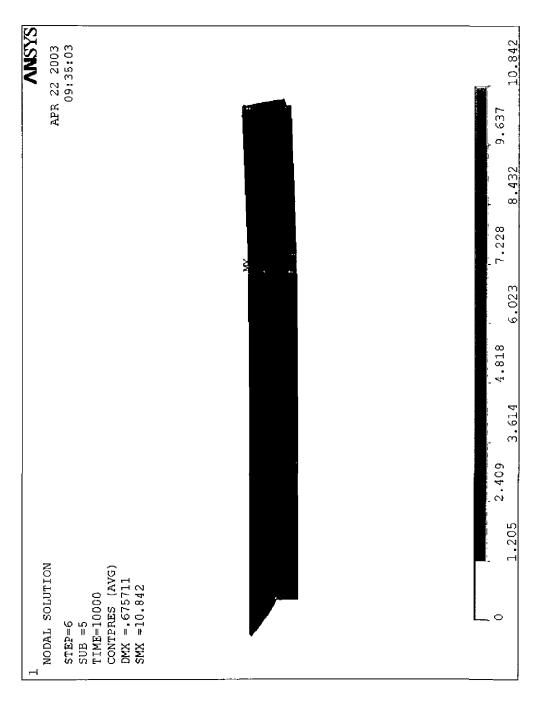
Model 300 – Non-linear Plane Strain se 3 – Ton Pressure and Soil Static Displacement



Horizontal Stress σ_x

T-CLC-Z-00001, Rev. 0

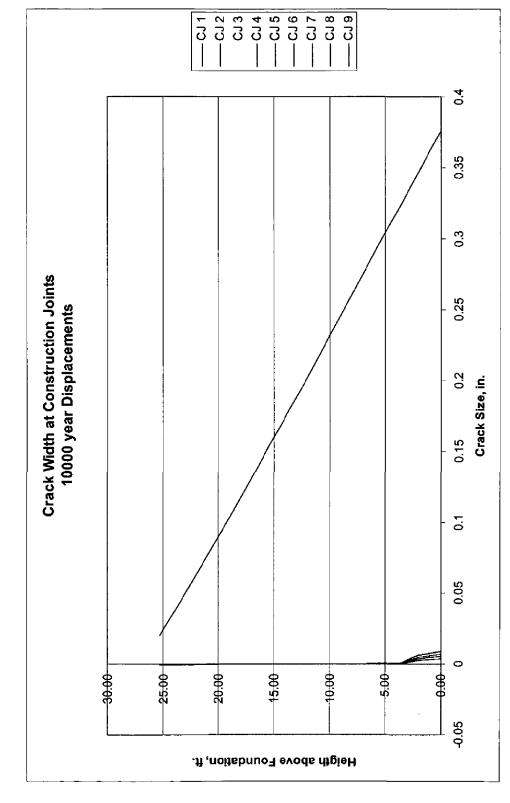
Model 300 – Non-linear Plane Strain Case 3 –Top Pressure and Soil Static Displacements



Contact Pressure

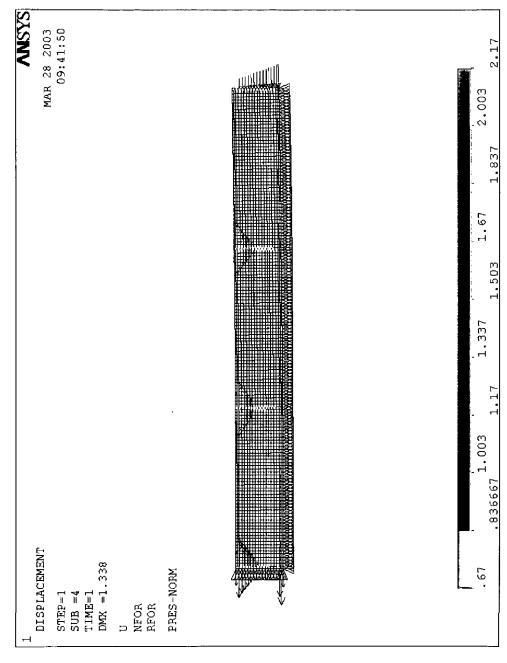
T-CLC-Z-00001, Rev. 0

Model 300 – Non-linear Plane Strain Case 3 – Top Pressure and Soil Static Displacements



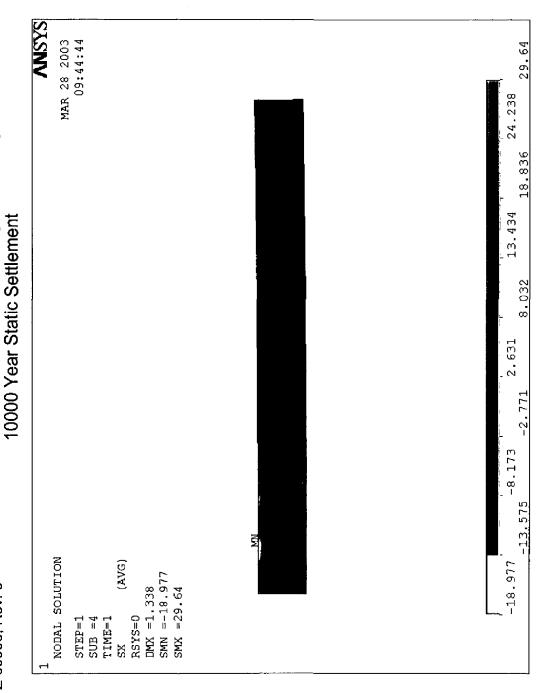
T-CLC-Z-00006, Rev. 0

Model 300 - Non-Linear Plane Strain [File ssv300] 10000 Year Static Settlement



Deformed Shape - Reactions, Applied Boundary Conditions

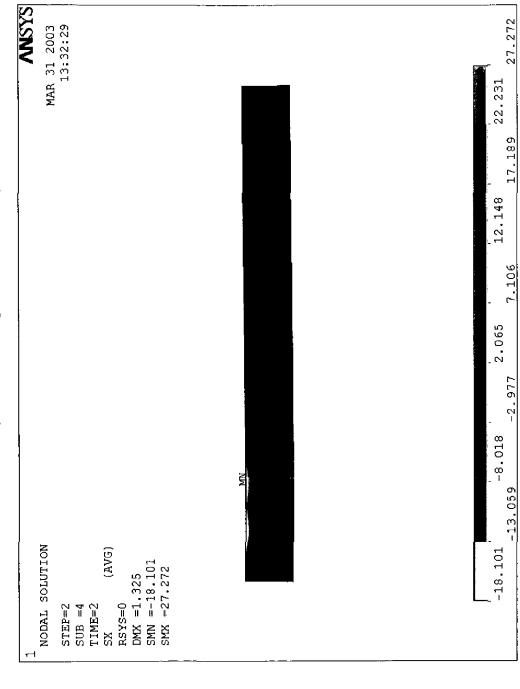
Model 300 - Non-Linear Plane Strain [File ssv300] T-CLC-Z-00006, Rev. 0



Horizontal Stress  $\sigma_{x}$ 

T-CLC-Z-00006, Rev. 0

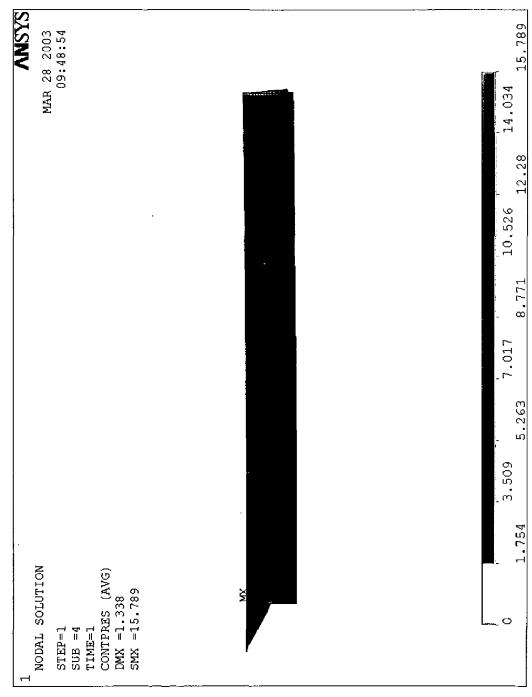
Model 300 - Non-Linear Plane Strain [File ssv300] Case 3 – Top Load & Weight, then 10000 yr. Creep



Horizontal Stress σ_x

T-CLC-Z-00006, Rev. 0

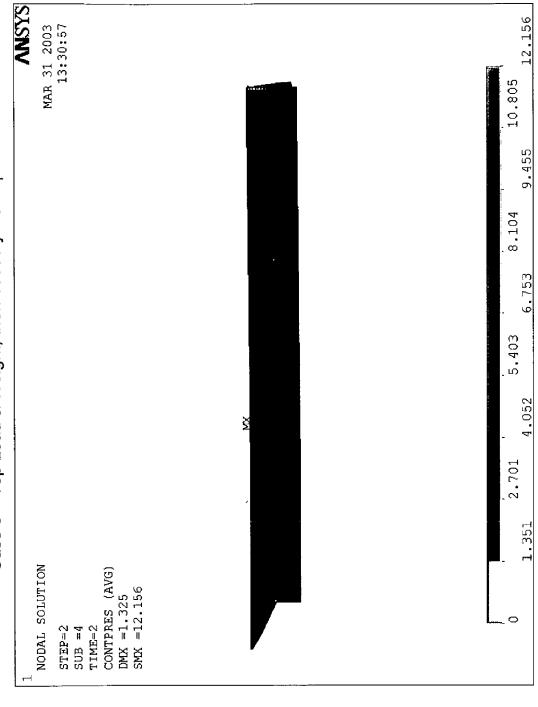
Model 300 - Non-Linear Plane Strain [File ssv300] 10000 Year Static Settlement



Contact Pressure between Saltstone and Walls

T-CLC-Z-00006, Rev. 0

Model 300 - Non-Linear Plane Strain [File ssv300] Case 3 – Top Load & Weight, then 10000 yr. Creep



Contact Pressure

-11-

# **Calculation Sheet**

	SRS	Project See	Corre	4.2				Calculation N	lo. C-Z-000	206
Re	<u>Jono</u>	Subject ~	∽ Date	Checker	Date	Rev	Originator	Date	Sheet No Checker	87 Date
0	1.0.	A'	7/9/03	J. Created	7/10/03	1784	Onginator	Date	Onecker	Date

"DIFFERENTIAL SETTLEMENTS

ref. Cales. K-CLC-Z-00001, 00004

Dapth to settlement (boring ZCP-27)

Sheet 102

Start elev. 230' > avg. 208ft - dapth = 62ft.

May elev 185'

May 8 for PC+3 is 0.75 in larrations are approximate

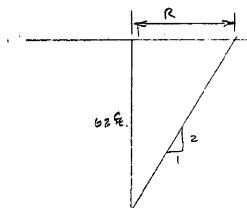
PC-4 2.75 in larrations are approximate

acce-22

acce-24

acce-24

acce-25



R = 31 ft, mean

D = 62ft mean . 1.

Variation of D

min = 30' ( const. It. spacing)

Cv= 1

mean +16= 1241

# Calculation Sheet

(5		ee Cov	<u> </u>				Calculation N	C-Z-000	00G
Rev	Subject	u v	Checker	Date	Rev	Originator	Date	Sheet No	0.   <b>8</b>   Date
0	wor	7/9/03							
					:				

Settlement curve

ref: K-CLC-H-00150, "Differential Settlement for CLW R-TEF Product Transfer Trench", Feb. 2000. /Reference 7.2)

Settlement follows: a Gaussian distribution with R= 2.50

$$\phi_N(t) = \frac{1}{(2\pi)} e^{-t^2/2}$$
 where  $t = x - \mu$ 

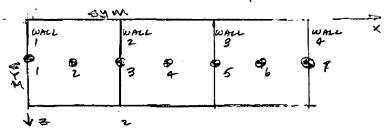
r=x- u = distance from center of displacemt field

@ . r= 2.56= 31ft. t=2.5 \$N = 0,0175

write Excer spread sheet. to apply displacements on model - file: 55v-diff settlement. x 13

Farameters Smap, depth to displacement, location of center of displacement field

LOCATIONS attosEN - equal probability



Add diff. displ to Static case - apply at top of soil

Center of Displacement					40.00						
	XC 50.75	=			Duits are lest						
Depth to Displacemen	_										
	D 62	æ									
Maximum Diff Displ											
del	delmax 0.75	Ē									
ыўша	=0/2/2.5										
u de	>	•	ŧ	(moor)ida	**************************************	Static	1000	8000 second	Differential	000 P	5000 vears
30001	=VLOOKUP(A12,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B12-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C12*2)/2)	=D12/MAX(D\$12:D\$467)	=E12*delmax/12	=STATICIFE	=STATICIGG	=STATIC/H6	=G12-\$F12	=H12-\$F12	3000 years ≖112-\$F12
30002	=VLOOKUP(A13,SAD\$2:\$AE\$165,2.FALSE)	=ABS(B13-Xc)/sigma	=1/(SQRT(2-PI()))-EXP(-(C13*2)/2)	=D13MAX(D\$12:D\$467)	=E13*delmax/12	=STATICIF7	≈STATICIG7	=STATICIH7	=G13-\$F13	=H13-SF13	= 13 <b>-\$</b> F13
51012	=VLOOKUP(A14,SAD\$2:\$AE\$165,2,FALSE)	=ABS(B14.Xc)/sigma	=1/(SQRT(2*PI())*EXP(-(C14*2)/2)	=D14/MAX(D\$12-D\$467)	=E14*delmax/12	<b>≖STATIC!F8</b>	=STATICIGS	=STATICIH8	=G14-\$F14	=H14-SF14	= 14-\$F14
51013	=VLOOKUP(A15,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B15-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C15/2)/2)	=D15/MAX(D\$12:D\$467)	=£15*delmax/12	=STATIC!F9	=STATICIG9	=STATIC!H9	=G15-\$F15	=H15-\$F15	=115-\$F15
51014	=VLOOKUP(A16,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B16-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C16/2)/2)	=D16/MAX(D\$12:D\$467)	=E16*delmax/12	=STATIC!F10	=STATICIG10	=STATICIH10	=G16-\$F16	=H16-\$F16	=116-\$F16
51015	=VLOOKUP(A17,\$AD\$2:\$AE\$166,2,FALSE)	=ABS(B17-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-{C17^2J/2})	=D17/MAX(D\$12:D\$467)	=E17*delmax/12	=STATICIF11	=STATIC/G11	=STATIC!H11	=G17-SF17	=H17-\$F17	=117-SF17
51016	=VLOOKUP(A18,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B18-Xc)/sigma	=1/(SORT(2*PI()))*EXP(-(C18*2)/2)	=D18/MAX(D\$12:D\$467)	=E18*delmax/12	=STATIC!F12	=STATICIG12	=STATIC!H12	=G18-\$F18	±H18-\$F18	=(18-\$F18
51017	=VLOOKUP(A19,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B19 Xc)/sigma	=1/(SQRT(2*PI()))*EXP( (C10*2)/2)	=D19/MAX(D\$12:D\$467)	=E19*delmax/12	=STATIC!F13	=STATIC!G13	=STATIC!H13	=G19-\$F19	=H19.\$F19	=119-\$F19
51018	=VLOOKUP(A20,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B20-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C20*2)/2)	=D20/MAX(D\$12:D\$467)	=E20*delmax/12	=STATIC!F14	=STATICIG14	=STATICIH14	=G20-\$F20	=H20-\$F20	=120-\$F20
51019	=VLOOKUP(A21,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B21-Xc)/sigma	=1/(SORT(2*PI()))*EXP(-(C21^2)/2)	=D21/MAX(D\$12:D\$467)	=E21*delmax/12	=STATIC!F15	=STATICIG15		=G21-\$F21	=H21-\$F21	=121-\$F21
51020	=VLOOKUP(A22,\$AD\$2;\$AE\$165,2,FALSE)	=ABS(B22-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C22*2)/2)	=D22/MAX(D\$12:D\$467)	=£22*delmax/12	=STATIC!F16	=\$TATICIG18		=G22-\$F22	=H22-\$F22	= 22-\$F22
51021	=VLOOKUP(A23,\$AD\$2:\$AE\$165,2.FALSE)	=ABS(B23-Xc)/sigma	=1/(SORT(2"PI()))*EXP(-(C23/2)/2)	=D23/MAX(D\$12:D\$467)	=E23*delmax/12	=STATIC:F17	=STATICIG17	=STATICIH17	=G23-\$F23	=H23-\$F23	= 23-\$F23
51022	=VLOOKUP(A24,\$AD\$2:\$AE\$165,2,FAL\$E)	=AB\$(B24-Xc)/sigma	=1/(\$QRT(2*PI()))*EXP(-{C24*2)/2)	=D24/MAX(D\$12:D\$467)	=£24*delmax/12	=STATIC!F18	=STATICIC18	=STATIC!H18	=G24-\$F24	=H24-\$F24	=124-\$F24
51023	=VLOOKUP(A25,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B25-Xc)/sigma	=1/(SORT(2*PI()))*EXP(-(C25/2)/2)	=D25/MAX(D\$12:D\$467)	=E25*delmax/12	<b>≥STATIC!F19</b>	=STATICIG19	=STATIC!H19	=G25-\$F25	=H25-\$F25	=(25-\$F25
51024	=VLOOKUP(A26,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B26-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C26/2)/2)	=D26/MAX(D\$12:D\$467)	=E26*delmax/12	=STATICIF20	⇒STATICIG20	=STATICIH20	=G26-\$F26	=H26-\$F26	=(26-\$F26
51025	=VLOOKUP(A27,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B27-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C27*2)/2)	=D27/MAX(D\$12:D\$467)	=E27*delmax/12	=STATIC!F21	=STATICIG21	=STATIC!H21	=G27-\$F27	=H27-\$F27	=:27-SF27
50633	=VLOOKUP(A28,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B28-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C28*2)/2)	=D28MAX(D\$12:D\$467)	=E28*delmax/12	=STATIC!F22	=STATICIG22	=STATIC!H22	=G28-\$F28	=H2B-\$F28	=i28-\$F28
51011	=VLOOKUP(A29,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(BZ9-Xc)/slgma	=1/(SQRT(2*PI()))*EXP(-(C29*2)/2)	=D29/MAX(D\$12:D\$467)	=E29*delmax/12	=STATIC!F23	=STATICIG23	=STATIC!H23	=G29-\$F29	=H29-\$F29	=I29-5F29
50635	=VLOOKUP(A30,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B30-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C30*2)/2)	=D30/MAX(D\$12:D\$467)	=E30*delmax/12	=STATIC!F24	=STATICIG24	=STATICIH24	=G30-\$F30	=H30-\$F30	≖I30-\$F30
50636	=VLOOKUP(A31,SAD\$2:\$AE\$165,2,FALSE)	=ABS(B31-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C31*2)/2)	=D31/MAX(D\$12:D\$467)	=E31*delmax/12	=STATICIF25	=STATICIG25	=STATICIH25	=G31-\$F31	=H31-\$F31	=I31-\$F31
20637	=VLOOKUP(A32,\$AD\$2:\$AE\$165,2,FALSE)	=ABS(B32-Xc)/sigma	=1/(SORT(2*PI()))*EXP(-{C32*2)/2}	=D32/MAX(D\$12:D\$467)	=E32*delmax/12	=STATIC!F26	=STATICIG2B	=STATICIH26	=G32-\$F32	=H32-\$F32	=132-\$F32
50638	=VLOOKUP(A33,SAD\$2:\$AE\$165,2,FALSE)	=ABS(B33-Xc)/sigma	=1/(SQRT(2*PI()))*EXP(-(C33/2)/2)	=D33/MAX(D\$12:D\$467)	=E33*delmav/12	=STATIC!F27	=STATIC!G27	=STATIC!H27	=G33-\$F33	=H33-\$F33	=133-\$F33

# formulae for differential diplacomous calculations

# T-CLC-Z-00006, Res. 8

Center of Displacement
Xc 250.75 ft
Depth to Displacement
D 62 ft

DIFFERENTIAL DISPLACEMENT CALCULATION

D 62 ft Maximum Diff Displ delmax 2.75 in € INPUT

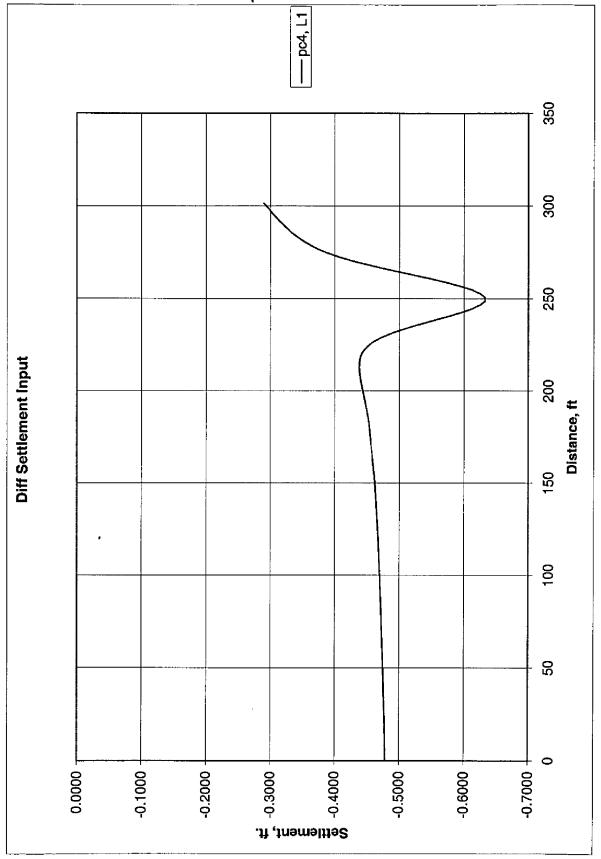
sigma 12.4

						Static			Differential	- APP	lu to	Model 300
NODE	х	t	Phi	Phi(norm)	Y diff		1000 vears	5000 vear	100 years			
30001	0	20.222	0.000	0.000	0.0000	-0.389	-0.47839		-0.3893	-0.4784	-0.5475	550 300
30002	1.5	20.101	0.000	0.000	0.0000	-0.389	-0.47833	-0.5474	-0.3892	-0.4783	-0.5474	
51012	3.45	19.944	0.000	0.000	0.0000	-0.389	-0.47826	-0.54733	-0.3892	-0.4783	-0.5473	
51013	5.4	19.786	0.000	0.000	0.0000	-0.389	-0.47819	-0.54727	-0.3891	-0.4782	-0.5473	
51014	7.35	19.629	0.000	0.000	0.0000	-0.389	-0.47811	-0.5472	-0.3890	-0.4781	-0.5472	
51015	9.3	19.472	0.000	0.000	0.0000	-0.389	-0.47804	-0.54713	-0.3889	-0.4780	-0.5471	
51016	11.25	19.315	0.000	0.000	0.0000	-0.389	-0.47797	-0.54706	-0.3888	-0.4780	-0.5471	
51017	13.2	19.157	0.000	0.000	0.0000	-0.389	-0.4779	-0.547	-0.3888	-0.4779	-0.5470	
51018	15.15	19.000	0.000	0.000	0.0000	-0.389	-0.47783	-0.54693	-0.3887	-0.4778	-0.5469	
51019	17.1	18.843	0.000	0.000	0.0000	-0.389	-0.47775	-0.54686	-0.3886	-0.4778	-0.5469	
51020	19.05	18.685	0.000	0.000	0.0000	-0.389	-0.47768	-0.5468	-0.3885	-0.4777	-0.5468	
51021 51022	21 22.95	18.528	0.000	0.000	0.0000	-0.388	-0.47758	-0.5467	-0.3884	-0.4776	-0.5467	
51022	24.9	18.371 18.214	0.000	0.000	0.0000	-0.388 -0.388	-0.47741 -0.47724	-0.54652 -0.54634	-0.3883 -0.3881	-0.4774	-0.5465 -0.5463	
51024	26.85	18.056	0.000	0.000	0.0000	-0.388	-0.47724	-0.54616	-0.3880	-0.4772 -0.4771	-0.5463	
51025	28.8	17.899	0.000	0.000	0.0000	-0.388	-0.47691	·0.54598	-0.3878	-0.4769	-0.5460	
50633	30.75	17.742	0.000	0.000	0.0000	-0.388	-0.47674	-0.5458	-0.3876	-0.4767	-0.5458	
51011	30.75	17.742	0.000	0.000	0.0000	-0.388	-0.47674	-0.5458	-0.3876	-0.4767	-0.5458	
50635	32.75	17.581	0.000	0.000	0.0000	-0.387	-0.47656	-0.54562	-0.3875	-0.4766	-0.5456	
50636	34.75	17.419	0.000	0.000	0.0000	-0.387	-0.47639	-0.54543	-0.3873	-0.4764	-0.5454	
50637	36.75	17.258	0.000	0.000	0.0000	-0.387	-0.47622	-0.54525	-0.3872	-0.4762	-0.5452	
50638	38.75	17.097	0.000	0.000	0.0000	-0.387	-0.47604	-0.54506	-0.3870	-0.4760	-0.5451	
50639	40.75	16.935	0.000	0.000	0.0000	-0.387	-0.47587		-0.3868	-0.4759	-0.5449	
50640	42.75	16.774	0.000	0.000	0.0000	-0.387	-0.4757	-0.54469	-0.3867	-0.4757	-0.5447	
50641	44.75	16.613	0.000	0.000	0.0000	-0.387		-0.54451	-0.3865	-0.4755	-0.5445	
50642	46.75	16.452	0.000	0.000	0.0000	-0.386	-0.47535	-0.54432	-0.3864	-0.4753	-0.5443	
50643	48.75	16.290	0.000	0.000	0.0000	-0.386	-0.47517		-0.3862	-0.4752	-0.5441	
50644 50645	50.75	16.129 15.968	0.000	0.000	0.0000	-0.386	-0.475 -0.47483	-0.54395	-0.3860	-0.4750	-0.5440	
50646	52.75 54.75	15.806	0.000	0.000 0.000	0.0000	-0.386 -0.386	-0.47463	-0.54377 -0.54356	-0.3859 -0.3857	-0.4748 -0.4746	-0.5438 -0.5436	
50647	56.75	15.645	0.000	0.000	0.0000	-0.386	-0.47443	-0.54335	-0.3855	-0.4744	-0.5433	
50648	58.75	15.484	0.000	0.000	0.0000	-0.385	-0.47423	-0.54313	-0.3853	-0.4742	-0.5431	
50634	60.75	15.323	0.000	0.000	0.0000	-0.385	-0.47403	-0.54292	-0.3852	-0.4740	-0.5429	
50681	60.75	15.323	0.000	0.000	0.0000	-0.385	-0.47403	-0.54292	-0.3852	-0.4740	-0.5429	
50683	62.75	15.161	0.000	0.000	0.0000	-0.385	-0.47383	-0.54271	-0.3850	-0.4738	-0.5427	
50684	64.75	15.000	0.000	0.000	0.0000	-0.385	-0.47363	-0.54249	-0.3848	-0.4736	-0.5425	
50685	66.75	14.839	0.000	0.000	0.0000	-0.385	-0.47343	-0.54228	-0.3846	-0.4734	-0.5423	
50686	68.75	14.677	0.000	0.000	0.0000	-0.384	-0.47323	-0.54207	-0.3844	-0.4732	-0.5421	
50687	70.75	14.516	0.000	0.000	0.0000	-0.384	-0.47303	-0.54185	-0.3843	-0.4730	-0.5419	
50688	72.75	14.355	0.000	0.000	0.0000	-0.384	-0.47283	-0.54164	-0.3841	-0.4728	-0.5416	
50689	74.75	14.194	0.000	0.000	0.0000	-0.384	-0.47263	-0.54142	-0.3839	-0.4726	-0.5414	
50690	76.75	14.032	0.000	0.000	0.0000	-0.384	-0.47244	-0.54121	-0.3837	-0.4724	-0.5412	
50691 50692	78.75 80.75	13.871	0.000	0.000 0.000	0.0000	-0.384 -0.383	-0.47224 -0.47204	-0.541	-0.3835	-0.4722	-0.5410	
50692	80.75 82.75	13.710 13.548	0.000	0.000	0.0000	-0.383	-0.47204	-0.54078 -0.54057	-0.3833 -0.3832	-0.4720 -0.4718	-0.5408 -0.5406	
50694	84.75	13.387	0.000	0.000	0.0000	-0.383	-0.47164	-0.54035	-0.3830	-0.4716	-0.5404	
50695	86.75	13.226	0.000	0.000	0.0000	-0.383		-0.54012	-0.3828	-0.4714	-0.5401	
50696	88.75	13.065	0.000	0.000	0.0000	-0.383	-0.47118	-0.53986	-0.3826	-0.4712	-0.5399	
50682	90.75	12.903	0.000	0.000	0.0000	-0.382	-0.47094	-0.5396	-0.3824	-0.4709	-0.5396	
51056	90.75	12.903	0.000	0.000	0.0000	-0.382	-0.47094	-0.5396	-0.3824	-0.4709	-0.5396	
51060	92.6	12.754	0.000	0.000	0.0000	-0.382	-0.47072		-0.3822	-0.4707	-0.5394	
51059	94.45	12.605	0.000	0.000	0.0000	-0.382	-0.4705	-0.53912	-0.3820	-0.4705	-0.5391	
51058	96.3	12.456	0.000	0.000	0.0000	-0.382	-0.47028	-0.53888	-0.3818	-0.4703	-0.5389	
51057	98.15	12.306	0.000	0.000	0.0000	-0.382	-0.47007	-0.53864	-0.3816	-0.4701	-0.5386	
30211	100	12.157	0.000	0.000	0.0000	-0.381	-0.46985	-0.5384	-0.3814	-0.4698	-0.5384	
30178	101.5	12.036	0.000	0.000	0.0000	-0.381	-0.46967	-0.53821	-0.3812	-0.4697	-0.5382	
50604	103.425	11.881	0.000	0.000	0.0000	-0.381	-0.46944	-0.53796	-0.3810	-0.4694	-0.5380	

50605	105.35	11.726	0.000	0.000	0.0000	-0.381	-0.46921	-0.53771	-0.3808	-0.4692	-0.5377
50606	107.275	11.571	0.000	0.000	0.0000	-0.381	-0.46898	-0.53746	-0.3806	-0.4690	-0.5375
50607	109.2	11.415	0.000	0.000	0.0000	-0.380	-0.46875	-0.53721	-0.3804	-0.4688	-0.5372
50608	111.125	11.260	0.000	0.000	0.0000	-0.380	-0.46852	-0.53696	-0.3802	-0.4685	-0.5370
50609	113.05	11.105	0.000	0.000	0.0000	-0.380	-0.46829	-0.53671	-0.3800	-0.4683	-0.5367
50610	114.975	10.950	0.000	0.000	0.0000	-0.380	-0.46807	-0.53646	-0.3798	-0.4681	-0.5365
50611	116.9	10.794	0.000	0.000	0.0000	-0.380	-0.46784	-0.53621	-0.3796	-0.4678	-0.5362
50612	118.825	10.639	0.000	0.000	0.0000	-0.379	-0.4676	-0.53595	-0.3794	-0.4676	-0.5360
50603	120.75	10.484	0.000	0.000	0.0000	-0.379	-0.46727	-0.53559	-0.3791	-0.4673	-0.5356
50744	120.75	10.484	0.000	0.000	0.0000	-0.379	-0.46727	-0.53559	-0.3791	-0.4673	-0.5356
50746	122.75	10.323	0.000	0.000	0.0000	-0.379	-0.46693	-0.53521	-0.3788	-0.4669	-0.5352
50747	124.75	10.161	0.000	0.000	0.0000	-0.379	-0.46659	-0.53483	-0.3785	-0.4666	-0.5348
50748	126.75	10.000	0.000	0.000	0.0000	-0.378	-0.46624	-0.53445	-0.3782	-0.4662	-0.5344
	128.75										
50749		9.839	0.000	0.000	0.0000	-0.378	-0.4659	-0.53407	-0.3780	-0.4659	-0.5341
50750	130.75	9.677	0.000	0.000	0.0000	-0.378	-0.46556	-0.53369	-0.3777	-0.4656	-0.5337
50751	132.75	9.516	0.000	0.000	0.0000	-0.377	-0.46522	-0.53331	-0.3774	-0.4652	-0.5333
50752	134.75	9.355	0.000	0.000	0.0000	-0.377	-0.46488	-0.53293	-0.3771	-0.4649	-0.5329
50753	136.75	9.194	0.000	0.000	0.0000	-0.377	-0.46454	-0.53255	-0.3768	-0.4645	-0.5325
50754	138.75	9.032	0.000	0.000	0.0000	-0.376	-0.46419	-0.53217	-0.3765	-0.4642	-0.5322
50755	140.75	8.871	0.000	0.000	0.0000	-0.376	-0.46385	-0.53179	-0.3762	-0.4639	-0.5318
50756	142.75	8.710	0.000	0.000	0.0000	-0.376	-0.46351	-0.53141	-0.3759	-0.4635	-0.5314
50757	144.75	8.548	0.000	0.000	0.0000	-0.376	-0.46317	-0.53103	-0.3756	-0.4632	-0.5310
50758	146.75	8.387	0.000	0.000	0.0000	-0.375	-0.46283	-0.53065	-0.3753	-0.4628	-0.5306
50759	148.75	8.226	0.000	0.000	0.0000	-0.375	-0.46249	-0.53027	-0.3750	-0.4625	-0.5303
50745	150.75	8.065	0.000	0.000	0.0000	-0.375	-0.46214	-0.52989	-0.3747	-0.4621	-0.5299
50792	150.75	8.065	0.000	0.000	0.0000	-0.375	-0.46214	-0.52989	-0.3747	-0.4621	-0.5299
50794	152.75	7.903	0.000	0.000	0.0000	-0.374	-0.46163	-0.5293	-0.3743	-0.4616	-0.5293
50795	154.75	7.742	0.000	0.000	0.0000	-0.374	-0.46104	-0.52863	-0.3738	-0.4610	-0.5286
50796	156.75	7.581	0.000	0.000	0.0000	-0.373	-0.46044	-0.52795	-0.3733	-0.4604	-0.5280
	158.75										
50797		7.419	0.000	0.000	0.0000	-0.373	-0.45985	-0.52728	-0.3728	-0.4598	-0.5273
50798	160.75	7.258	0.000	0.000	0.0000	-0.372	-0.45926	-0.5266	-0.3724	-0.4593	-0.5266
50799	162.75	7.097	0.000	0.000	0.0000	-0.372	-0.45866	-0.52593	-0.3719	-0.4587	-0.5259
50800	1 <del>64</del> .75	6.935	0.000	0.000	0.0000	-0.371	-0.45807	-0.52525	-0.3714	-0.4581	-0.5253
50801	166.75	6.774	0.000	0.000	0.0000	-0.371	-0.45747	-0.52457	-0.3709	-0.4575	-0.5246
50802	168.75	6.613	0.000	0.000	0.0000	-0.370	-0.45688	-0.5239	-0.3704	-0.4569	-0.5239
50803	170.75	6.452	0.000	0.000	0.0000	-0.370	-0.45629	-0.52322	-0.3699	-0.4563	-0.5232
50804	172.75	6.290	0.000	0.000	0.0000	-0.369	-0.45569	-0.52255	-0.3694	-0.4557	-0.5225
50805	174.75	6.129	0.000	0.000	0.0000	-0.369	-0.4551	-0.52187	-0.3689	-0.4551	-0.5219
50806	176.75	5.968	0.000	0.000	0.0000	-0.368	-0.45451	-0.5212	-0.3685	-0.4545	-0.5212
50807	178.75	5.806	0.000	0.000	0.0000	-0.368	-0.45391	-0.52052	-0.3680	-0.4539	-0.5205
50793	180.75	5.645	0.000	0.000	0.0000	-0.367	-0.45332	-0.51985	-0.3675	-0.4533	-0.5198
50840	180.75	5.645	0.000	0.000	0.0000	-0.367	-0.45332	-0.51985	-0.3675	-0.4533	-0.5198
50841	182.675	5.490	0.000	0.000	0.0000	-0.367	-0.45275	-0.5192	-0.3670	-0.4528	-0.5192
50842	184.6	5.335	0.000	0.000	0.0000	-0.366	-0.45204	-0.51839	-0.3664	-0.4520	-0.5184
50843	186.525	5.179	0.000	0.000	0.0000	-0.366	-0.45096	-0.51715	-0.3655	-0.4510	-0.5171
50844	188.45	5.024	0.000	0.000	0.0000	-0.365	-0.44988	-0.51591	-0.3647	-0.4499	-0.5159
	190.375	4.869	0.000	0.000	0.0000	-0.364					
50845							-0.44879	-0.51466	-0.3638	-0.4488	-0.5147
50846	192.3	4.714	0.000	0.000	0.0000	-0.363	-0.44771	-0.51342	-0.3629	-0.4477	-0.5134
50847	194.225	4.558	0.000	0.000	0.0000	-0.362	-0.44662	-0.51218	-0.3620	-0.4466	-0.5122
50848	196.15	4.403	0.000	0.000	0.0000	-0.361	-0.44554	-0.51094	-0.3611	-0.4456	-0.5110
50849	198.075	4.248	0.000	0.000	0.0000	-0.360	-0.44446	-0.5097	-0.3603	-0.4445	-0.5097
30214	200	4.093	0.000	0.000	0.0001	-0.359	-0.44337	-0.50845	-0.3594	-0.4434	-0.5085
30215	201.5	3.972	0.000	0.000	0.0001	-0.359	-0.44253	-0.50749	-0.3588	-0.4426	-0.5076
50730	203.35	3.823	0.000	0.001	0.0002	-0.358	-0.44148	-0.50629	-0.3580	-0.4416	-0.5064
50731	205.2	3.673	0.000	0.001	0.0003	-0.357	-0.44044	-0.5051	-0.3573	-0.4407	-0.5054
50732	207.05	3.524	0.001	0.002	0.0005	-0.356	-0.4394	-0.5039	-0.3566	-0.4399	-0.5044
50733	208.9	3.375	0.001	0.003	0.0008	-0.355	-0.43836	-0.50271	-0.3561	-0.4391	-0.5035
50729	210.75	3.226	0.002	0.006	0.0013	-0.354	-0.43732	-0.50152	-0.3557	-0.4386	-0.5028
50870	210.75	3.226	0.002	0.006	0.0013	-0.354	-0.43732	-0.50152	-0.3557	-0.4386	-0.5028
50872	212.75	3.065	0.004	0.009	0.0021	-0.354	-0.43619		-0.3556	-0.4383	-0.5023
50873	214.75	2.903	0.006	0.015	0.0034	-0.353		-0.49893	-0.3560	-0.4385	-0.5023
50874	216.75	2.742	0.009	0.023	0.0053	•0.352	-0.43394		-0.3570	-0.4393	-0.5023
50875	218.75	2.581	0.014	0.036	0.0082	-0.350	-0.43226		-0.3585	-0.4405	-0.5039
50876	220.75	2.419	0.021	0.054	0.0123	-0.349	-0.43055		-0.3612	-0.4428	-0.5061
50877	222.75	2.258	0.031	0.078	0.0179	-0.348	-0.42885		-0.3654	-0.4468	-0.5097
50878	224.75	2.097	0.044	0.111	0.0254	-0.346	-0.42715	-0.48988	-0.3716	-0.4526	-0.5153
50879	226.75	1.935	0.061	0.154	0.0352	-0.345	-0.42545	-0.48793	-0.3800	-0.4607	-0.5231
50880	228.75	1.774	0.083	0.207 ·	0.0475		-0.42374		-0.3909	-0.4712	-0.5335
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50881	230.75	1.613	0.109	0.272	0.0624	-0.342	-0.42204	-0.48404	-0.4044	-0.4844	-0.5464
50882	232.75	1.452	0.139	0.349	0.0799	-0.341	-0.42034	-0.48209	-0.4205	-0.5002	-0.5620
50883	234.75	1.290	0.174	0.435	0.0997	-0.339	-0.41864	-0.48014	-0.4389	-0.5183	-0.5798
50884	236.75	1.129	0.211	0.529	0.1212	-0.338	-0.41693	-0.4782	-0.4590	-0.5381	-0.5994
50885	238.75	0.968	0.250	0.626	0.1435	-0.336	-0.41523	-0.47625	-0.4799	-0.5587	-0.6197
50871	240.75	0.806	0.288	0.722	0.1655	-0.335	-0.41353	-0.4743	-0.5006	-0.5791	-0.6399
50918	240.75	0.806	0.288	0.722	0.1655	-0.335	-0.41353	-0.4743	-0.5006	-0.5791	-0.6399
50920	242.75	0.645	0.324	0.812	0.1861	-0.334	-0.41182	-0.47236	-0.5198	-0.5979	-0.6585
50921	244.75	0.484	0.355	0.890	0.2038	-0.332	-0.41012	-0.47041	-0.5361	-0.6140	-0.6743
50922	246.75	0.323	0.379	0.949	0.2175	-0.331	-0.40842	-0.46846	-0.5484	-0.6260	-0.6860
50923	248.75	0.161	0.394	0.987	0.2262	-0.330	-0.40672	-0.46651	-0.5557	-0.6329	-0.6927
50924	250.75	0.000	0.399	1.000	0.2292	-0.327	-0.4035	-0.46287	-0.5560	-0.6327	-0.6920
50925	252.75	0.161	0.394	0.987	0.2262	-0.323	-0.39929	-0.4581	-0.5495	-0.6255	-0.6843
50926	254.75	0.323	0.379	0.949	0.2175	-0.320	-0.39507	-0.45333	-0.5374	-0.6126	-0.6709
50927	256.75	0.484	0.355	0.890	0.2038	-0.316	-0.39085	-0.44856	-0.5202	-0.5947	-0.6524
50928	258.75	0.645	0.324	0.812	0.1861	-0.313	-0.38664	-0.44379	-0.4989	-0.5727	-0.6299
50929	260.75	0.806	0.288	0.722	0.1655	-0.309	-0.38242	-0.43902	-0.4749	-0.5480	-0.6046
50930	262.75	0.968	0.250	0.626	0.1435	-0.306	-0.37821	-0.43425	-0.4493	-0.5217	-0.5777
50931	264.75	1.129	0.211	0.529	0.1212	-0.302	-0.37399	-0.42948	-0.4235	-0.4952	-0.5506
50932	266.75	1.290	0.174	0.435	0.0997	-0.299	-0.36978	-0.42471	-0.3985	-0.4695	-0.5244
50933	268.75	1.452	0.139	0.349	0.0799	-0.295		-0.41994	-0.3752	-0.4455	-0.4998
50919	270.75	1.613	0.109	0.272	0.0624	-0.292	-0.36135	-0.41517	-0.3542	-0.4238	-0.4776
50966	270.75	1.613	0.109	0.272	0.0624	-0.292	-0.36135	-0.41517	-0.3542	-0.4238	-0.4776
50967	272.7	1.770	0.083	0.209	0.0478	-0.288		-0.41052	-0.3362	-0.4051	-0.4584
50968	274.65	1.927	0.062	0.156	0.0358	-0.285	-0.35313	-0.40587	-0.3207	-0.3889	-0.4416
50969	276.6	2.085	0.045	0.114	0.0261	-0.282	-0.34902	-0.40122	-0.3077	-0.3751	-0.4273
50970	278.55	2.242	0.032	0.081	0.0186	-0.278	-0.34491	-0.39657	-0.2967	-0.3635	-0.4151
50971	280.5	2.399	0.022	0.056	0.0129	-0.275	-0.3408	-0.39192	-0.2876	-0.3537	-0.4048
50972	282.45	2.556	0.015	0.038	0.0087	-0.271	-0.33662	-0.38719	-0.2800	-0.3454	-0.3959
50973	284.4	2.714	0.010	0.025	0.0058	-0.267	-0.33181	-0.38172	-0.2731	-0.3376	-0.3875
50974	286.35	2.871	0.006	0.016	0.0037	-0.263	-0.32699	-0.37624	-0.2671	-0.3307	-0.3800
50975	288.3	3.028	0.004	0.010	0.0023	-0.259	-0.32218	-0.37076	-0.2617	-0.3245	-0.3731
50976	290.25	3.185	0.002	0.006	0.0014	-0.255	-0.31737	-0.36528	-0.2569	-0.3188	-0.3667
50977	292.2	3.343	0.001	0.004	0.0009	-0.251	-0.31255	-0.35981	-0.2523	-0.3134	-0.3607
50978	294.15	3.500	0.001	0.002	0.0005	-0.248	-0.30774	-0.35433	-0.2480	-0.3082	-0.3548
50979	296.1	3.657	0.000	0.001	0.0003	-0.244	-0.30293	-0.34885	-0.2438	-0.3032	-0.3491
50980	298.05	3.815	0.000	0.001	0.0002	-0.240	-0.29811	-0.34338	-0.2397	-0.2983	-0.3435
30361	300	3.972	0.000	0.000	0.0001	-0.236	-0.2933	-0.3379	-0.2357	-0.2934	-0.3380
30362	301.5	4.093	0.000	0.000	0.0001	-0.233	-0.2896	-0.33369	-0.2326	-0.2896	-0.3337



adisp sequence.txt

```
ANTYPE, 0
TIME, 1
/INPÚT,'D1','txt','D:\Ansys Files\Run Files\Model 300\',, 0
/STATUS, SOLU
SOLVE
TIME, 24
/INPÚT, 'D24', 'txt', 'D:\Ansys Files\Run Files\Model 300\',, 0
/STATUS, SOLU
SOLVE
TIME, 100
/INPUT, 'D100', 'txt', 'D:\Ansys Files\Run Files\Model 300\',, 0
/STATUS, SOLU
SOLVE
TIME, 1000
/INPUT, 'D1000', 'txt', 'D:\Ansys Files\Run Files\Model 300\',, 0
/STATUS, SOLU
SOLVE
TIME, 5000
/INPUT, 'D5000', 'txt', 'D:\Ansys Files\Run Files\Model 300\',, 0
/STATUS, SOLU
SOLVE
!TIME,10000
!/INPUT, 'd10000', 'txt', 'D:\Ansys Files\Run Files\Model 300\',, 0
!/STATUS, SOLU
! SOLVE
!FINISH
```

STATEL LOAD APPLICATION (5000 grs.)

Euput for file sou 300.db

D5000a.txt

D. 30001.	-0.3893	,,,UY,,,,,
5,30005,	, 0.3003,,	, , , , , , , , , ,
D,30002,	,-0.3892,,	,,,UY,,,,,
n 51012	_0_3892	,,,UY,,,,,
- 51012,	, 0.3032,,	,,,,,,,,,
D, SIUIS,	,-0.3891,,	,,UY,,,,
n 51014	_n 389n	,,,UY,,,,,
D, 51017,	, 0.3030,,	,,,0,,,,,,
D. 21012	,-0.3889,,	,,,UY,,,,, ,,,UY,,,,,
n 51016	_ህ 3888	
0, 51010,	, -0. 3000, ,	,,,01,,,,,,
D.5101/	0.3888	,,,UY,,,,,
D, 51018,	-0.3887	,,,UY,,,,,
D, 21010'	,-0.2007,,	,,,от,,,,,
D. 51019.	0. 3886	,,,UY,,,,,
D F1000	0 3005	,,,UY,,,,,
υ, στυζυ,	,-0.3003,,	,,,UT,,,,,
D. 51021.	0. 3884	,,,uY,,,,,
5,51011,	, 0.3001,	,,,,,,,,,,
D, SIUZZ,	,-U.3883, _,	,,,UY,,,,,
D 51023	-0 3881	,,,UY,,,,, ,,,UY,,,,,
5,51023,	, 0.3001,	,,,,,,,,,
U,51U24,	,-0.3880,,	,,,UY,,,,, ,,,UY,,,,,
D 51025	-0 3878	IIV
5,51023,	, 0.3070,	,,,,,,,,,,
D,50633,	,-0.38/6,,	,,,UY,,,,,
D 51011	-0 3876	,,UY,,,,,
D, 21011,	, 0.307011	,,,0,,,,,,
D.50635,	,-0.38/5,,	,,,UY,,,,,
n 50636	R 7877	,,,UY,,,,,
D, 30030,	, " 0 . 20/ 2 , ,	,,,,,,,,,
D,50637,	0.3872	,,,UY,,,,,
D 20638		
υ, 30030,	, -0. 30/0, ,	,,,UY,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
D.50639.	0.3868	UY
D 50640	_0 2067	,,,UY,,,,,
υ, ουστυ,	, -0.3007,	,,,01,,,,,
D.50641.	. ~0.3865	,,,UY,,,
D 50642	_0.3864	,,,UY,,,,
D, 30042,	, -0.3004,	,,,01,,,,,
D. 50643.	0.3862	,,,UY,,,,,
D FOGAA	0 2060	,,,UY,,,,,
υ, ουσ44,	, -0. 3000,	,,,01,,,,,
D. 50645.	0.3859	,,,UY,,,,, ,,,UY,,,,,
D FOC16	, V 30E2,	,,,-,,,,,,
υ, ουφ4ο,	,-0.202/,	,,,UY,,,,,
D. 50647.	0. 3855	,,,UY,,,,,
D FOC49	,-0.3853,	,,,,,,,,,
D,50648,	,-0.3633,	,,,UY,,,,,
D,50634,	0. 3852	,,,UY,,,,,
5,50001,	, 0.3052,	,,,,,,,,,
ע דטטטכד,	,-0.3032,	,,,UY,,,,,
D 50683	0. 3850	,,,UY,,,,,
5,50000,	, 0.3030,	,,,,,,,,,,
υ, 50684,	,-0.3848,	,,,u _Y ,,,,,
D,50685,	-0.3846	,,,UY,,,,,
5,500005,	, 0.30.0,	,,,,,,,,,
D,50686,	,-0.3844,	,,,υΥ,,,,, ,,,υΥ,,,,,
D 50687	-0 38 <b>4</b> 3	HV
5,50007,	, 0.3043,	,,,,,,,,,,
D,50688,	,-0.3841,	,,,UY,,,,,
n 50689	-0.3839	,,,UY,,,,,
5,500005,	, 0.3033,	,,,,,,,,,,
D,50690,	,-0.383/,.	,,,UY,,,,,
D.50691.	_0 3835	,,,UY,,,,,
D, 50051,	, 0.3033,	,,,,,,,,,,
D,50692,	,-0.3833,	,,,UY,,,,
n 50693	-0 3832	,,,UY,,,,,
- 500033,	, 0.3032,	,,,,,,,,,
D,50694,	,-0.3830,	,,,UY,,,,,
D 50695	-0.3828	,,,UY,,,,,
5,50055,	, 0.3020,	,,,,,,,,,,
D,50696,	,-U.38Z0,	,,,UY,,,,,
D 50682	-0.3824	,,,UY,,,,,
D, 5000E,	, 0.302.,	,,,,,,,,,,
D,51056,	,-0.3824,	,,,UY,,,,,
n 51060 i	-0 3822	,,,UY,,,,
D, 51000,	, 0.3022,	,,,
D.51059,	,~0.3820,	,,,UY,,,,, ,,,UY,,,,,
n 51058	์ _ก จดาดั	IIV
D, 21030,	, 0.3010,	,,,,,,,,,,
D,51057.	,-0.3816.	,,,UY,,,,,
n. 30211	_0 3814	,,,UY,,,,, ,,,UY,,,,,
U, 00211,	, -0.3014,	,,,,,,,,,,
D.30178.	,-0.3812.	,,,UΥ,
D'EDEDA'	_0 3810	,,,UY,,,,,
υ, ουου4,	,-0.3010,	,,,01,,,,,
D.50605.	,-0.3808.	,,,UY,,,,,
D SOCOC	ַ אַמַּאַרַ הַ	, IIV
ν, ουου <b>ο</b> ,	,-0.3000,	,,,,,,,,,,
D.50607.	,-0.3804	,,,UY,,,,, ,,,UY,,,,,
ר בעכעה	_0 3802	,,,UY,,,,,
י סַטַסַטַסָּ,	, -0.3002,	,,,,,,,,,,
D.50609.	0.3800.	,,,UY,,,,,
D ENGIN	, 0 3700'	,,,UY,,,,

Differential Displacement File applied as load step after static load application

D5000a.txt

```
D,50611,,-0.3796,,,,UY,,,,,
D,50612,,-0.3794,,,UY,,,,,
D,50603,,-0.3791,,,,uY,,,,
D,50744,,-0.3791,,,,uY,,,,
D,50746,,-0.3788,,,,uY,,,,
D,50747,,-0.3785,,,,UY,,,,,
D,50748,,-0.3782,,,UY,,,,,
D,50749,,-0.3780,,,,uY,,,,,
D,50750,,-0.3777,,,,uY,,,,
D,50751,,-0.3774,,,,UY,,,,,
D,50752,,-0.3771,,,,UY,,,,,
D,50753,,-0.3768,,,,UY,,,,
D,50754,,-0.3765,,,,uY,,,,,
D,50755,,-0.3762,,,,UY,,,,
D,50756,,-0.3759,,,,UY,,,,,
D,50757,,-0.3756,,,,UY,,,,,
D,50758,,-0.3753,,,,uY,,,,
D,50759,,-0.3750,,,,UY,,,,
D,50745,,-0.3747,,,UY,,,,,
D,50792,,-0.3747,,,UY,,,,,
D,50794,,-0.3743,,,UY,,,,,
D,50795,,-0.3738,,,,uY,,,,
D,50796,,-0.3733,,,,uY,,,,,
D,50797,,-0.3728,,,,UY,,,,,
D,50798,,-0.3724,,,UY,,,,,
D,50799,,-0.3719,,,UY,,,,,
D,50800,,-0.3714,,,,UY,,,,,
D,50801,,-0.3709,,,,UY,,,,,
D,50802,,-0.3704,,,,UY,,,,,
D,50803,,-0.3699,,,,UY,,,,,
D,50804,,-0.3694,,,,uY,,,,
D,50805,,-0.3689,,,,uy,,,,,
D,50806,,-0.3685,,,,UY,,,,,
D,50807,,-0.3680,,,UY,,,,,
D,50793,,-0.3675,,,UY,,,,,
D,50840,,-0.3675,,,,UY,,,,
D,50841,,-0.3670,,,,UY,,,,,
D,50842,,-0.3664,,,UY,,,,,
D,50843,,-0.3655,,,UY,,,,,
D,50844,,-0.3647,,,,UY,,,,,
D,50845,,-0.3638,,,,UY,,,,,
D,50846,,-0.3629,,,,UY,,,,,
D,50847,,-0.3620,,,,UY,,,,,
D,50848,,-0.3611,,,,UY,,,,,
D,50849,,-0.3603,,,,uY,,,,
D,30214,,-0.3594,,,,uY,,,,
D,30215,,-0.3588,,,,UY,,,,,
D,50730,,-0.3580,,,UY,,,,,
D,50731,,-0.3573,,,,uY,,,,
D,50732,,-0.3566,,,,UY,,,,,
D,50733,,-0.3561,,,,uY,,,,,
D,50729,,-0.3557,,,uY,,,,
D,50870,,-0.3557,,,uY,,,,
D,50872,,-0.3556,,,,UY,,,,,
D,50873,,-0.3560,,,,UY,,,,,
D,50874,,-0.3570,,,,UY,,,,,
D,50875,,-0.3585,,,,UY,,,,,
D,50876,,-0.3612,,,,UY,,,,,
D,50877,,-0.3654,,,,UY,,,,,
D,50878,,-0.3716,,,,UY,,,,,
D,50879,,-0.3800,,,,UY,,,,,
D,50880,,-0.3909,,,UY,,,,,
D,50881,,-0.4044,,,,UY,,,,
```

Page 2

### D5000a.txt

## Calculation Continuation Sheet

Calculation No.	Sheet No.	Rev.
T-CLC-Z-00006	98	0

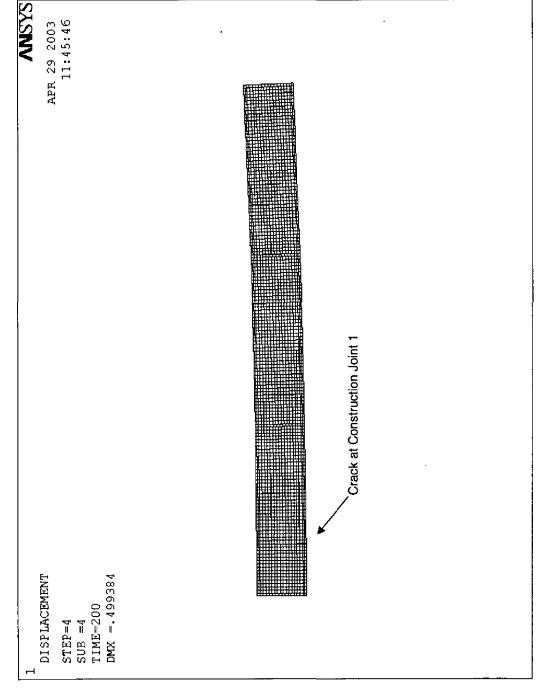
### Differential Settlement Results:

The following plots show the differing crack patterns that result from the mean case for differential settlements. Seven locations were chosen for settlement. The plots show results for three different times, 100, 1000, and 10000 years and two levels of settlement, 0.75 in. (PC-3) and 2.75 in. (PC-4).

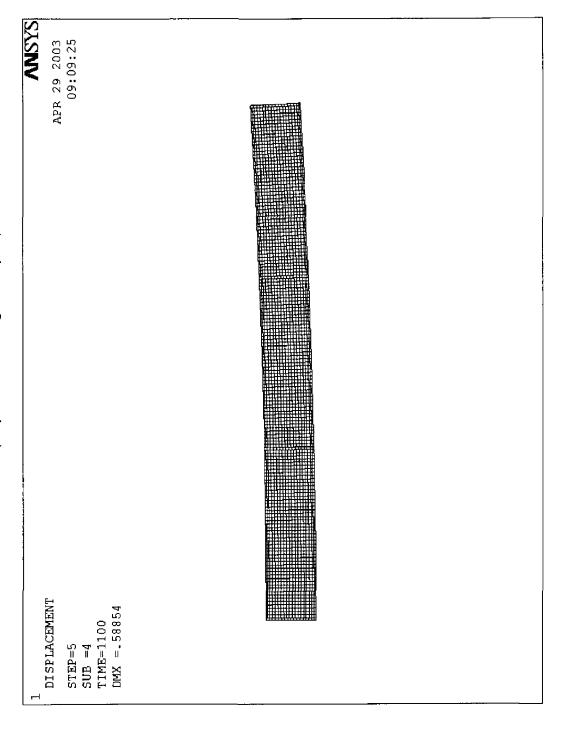
In addition, two cases were run where there were two concurrent settlement locations. The results from the double settlements, however, resulted in no additional cracking above that caused by a single settlement. Therefore, only single settlements will be considered in this analysis.

These deformed shape plots graphically show the behavior of the vault. The deformation scale has been greatly exaggerated in all cases. To plot the cracks in a form usable for further evaluation, EXCEL spreadsheets were used to calculate relative displacements on each side of control joints and saltstone/concrete contacts. Appendix E contains plots of these locations for all the basic parametric variations. There are a small number of plots that are not shown that were used to obtain data that was needed to provide additional data points for later use in the Monte Carlo analysis.

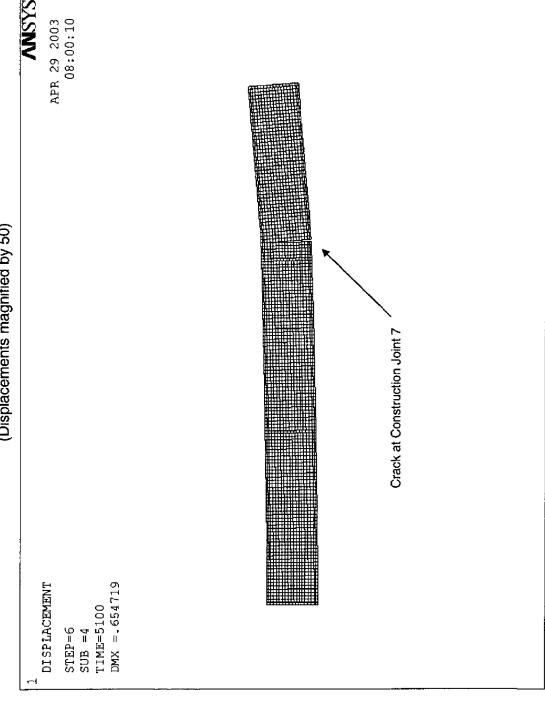
PC3 Location 1 – 100 years (Displacements magnified by 50)



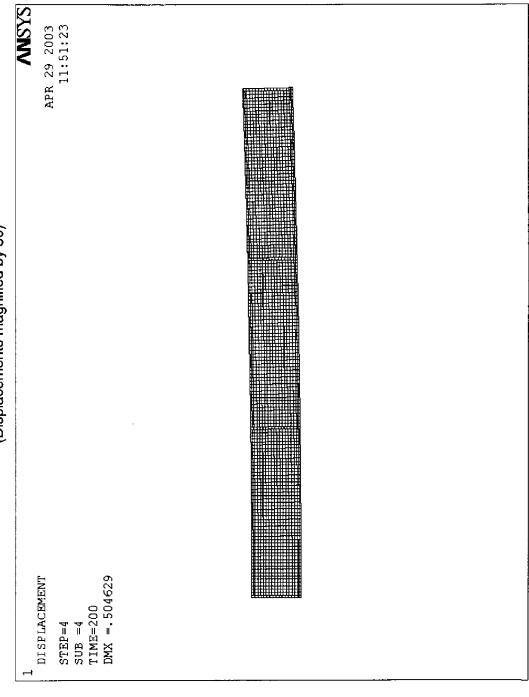
PC3 Location 1 – 1000 years (Displacements magnified by 50)



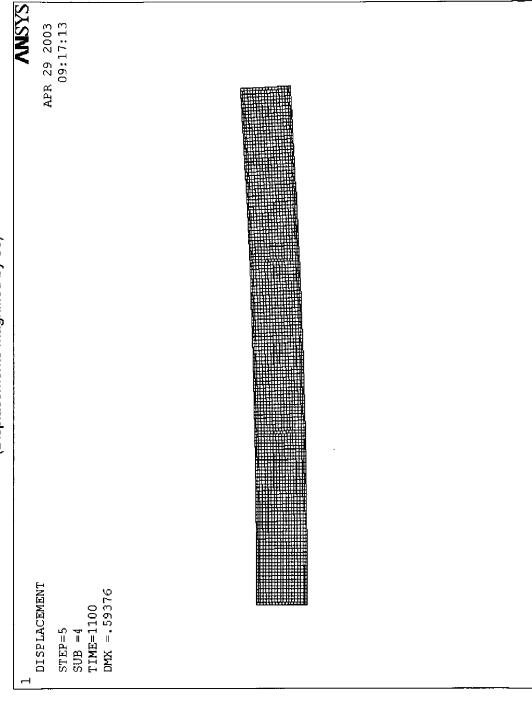
PC3 Location 1 – 5000 years (Displacements magnified by 50)



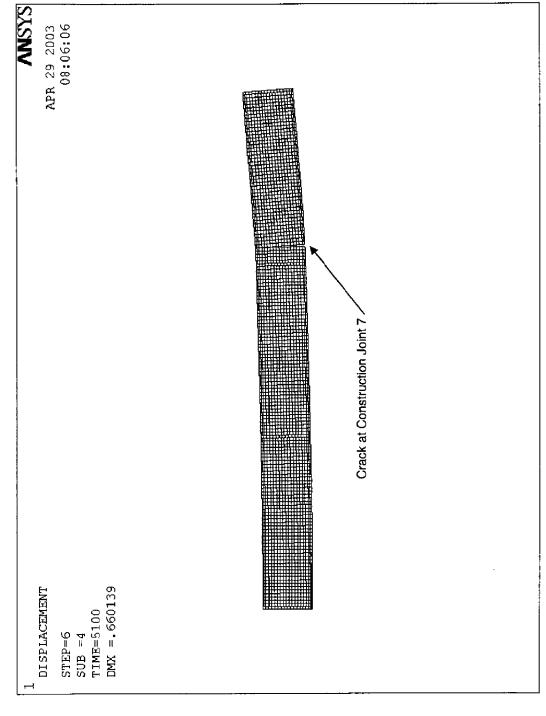
PC3 Location 2 – 100 years (Displacements magnified by 50)



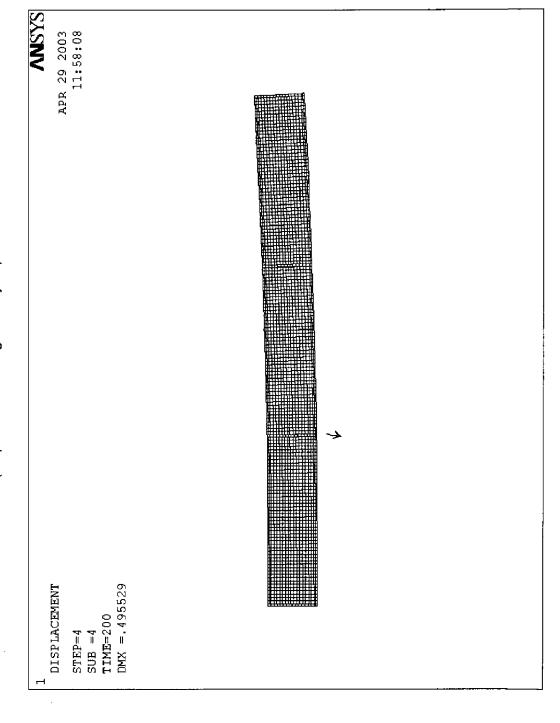
PC3 Location 2 – 1000 years (Displacements magnified by 50)



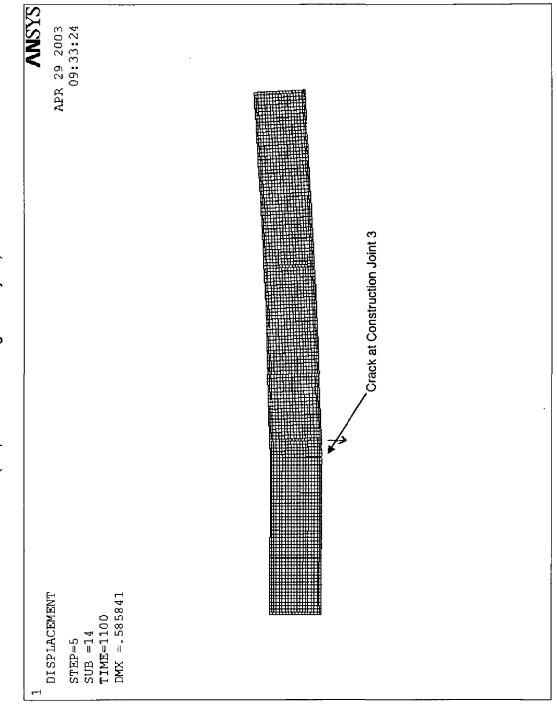
PC3 Location 2 – 5000 years (Displacements magnified by 50)



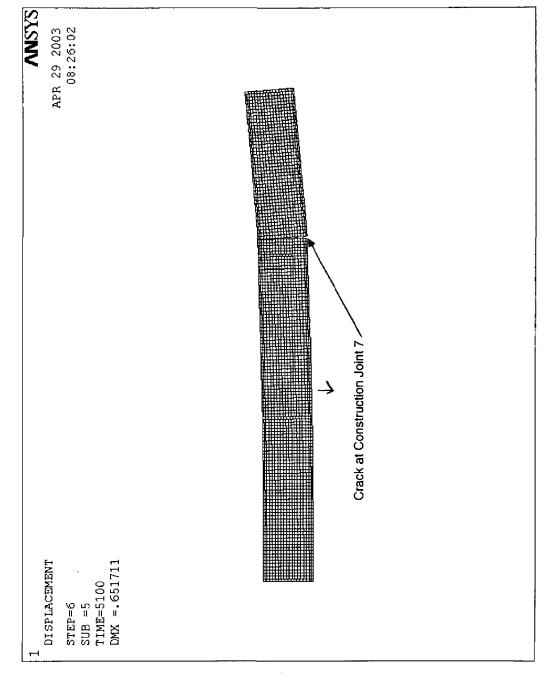
PC3 Location 3 – 100 years (Displacements magnified by 50)



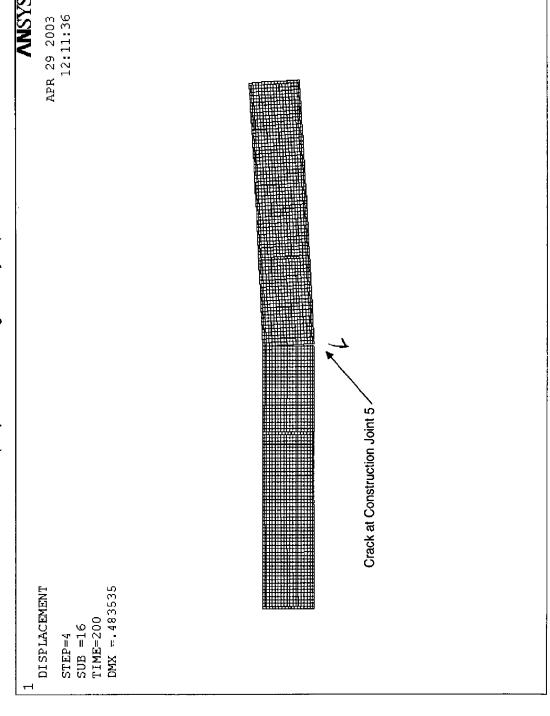
PC3 Location 3 – 1000 years (Displacements magnified by 50)



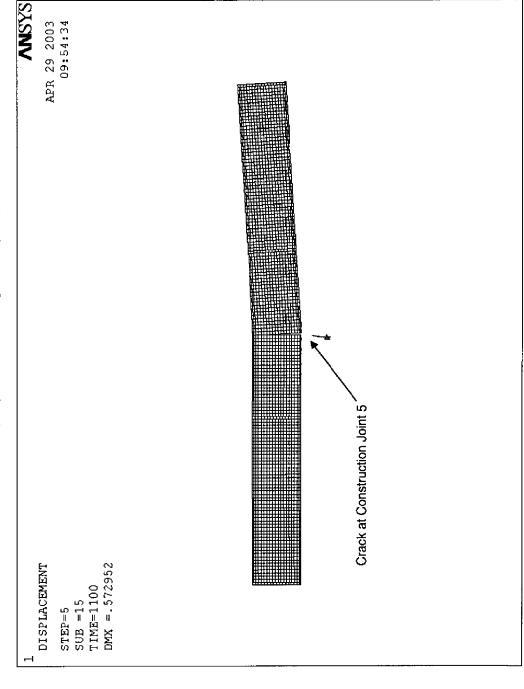
PC3 Location 3 – 5000 years (Displacements magnified by 50)



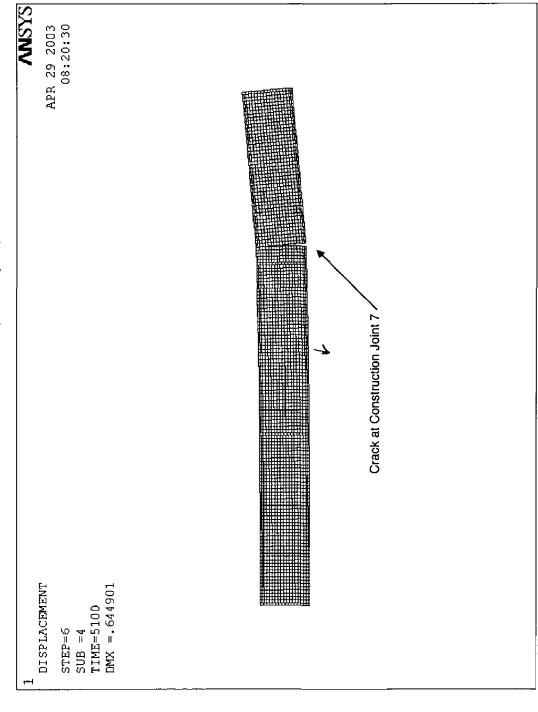
PC3 Location 4 – 100 years (Displacements magnified by 50)



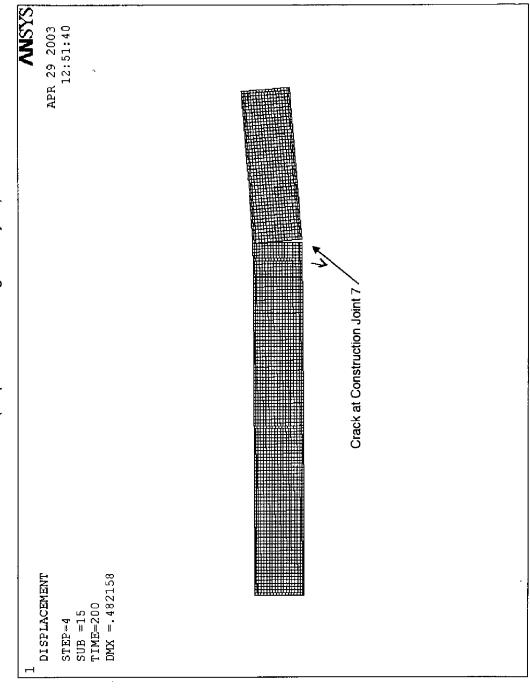
PC3 Location 4 – 1000 years (Displacements magnified by 50)



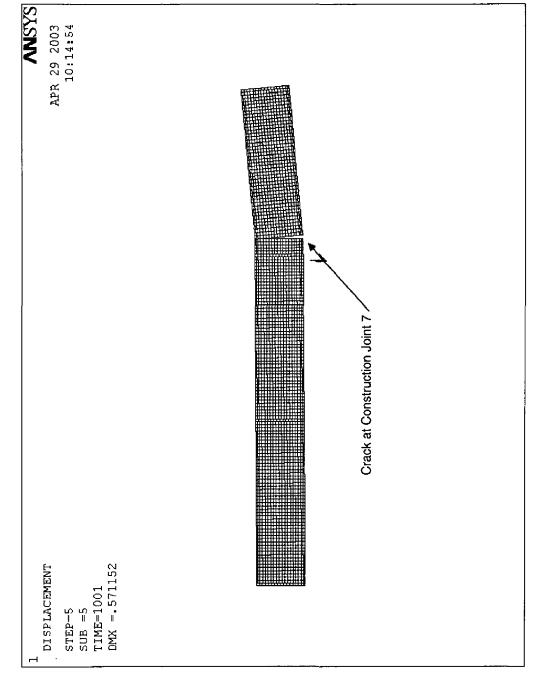
PC3 Location 4 – 5000 years (Displacements magnified by 50)



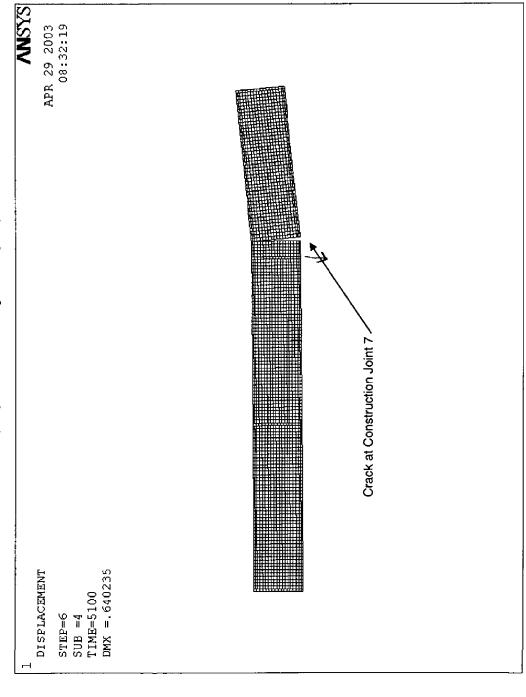
PC3 Location 5 – 100 years (Displacements magnified by 50)



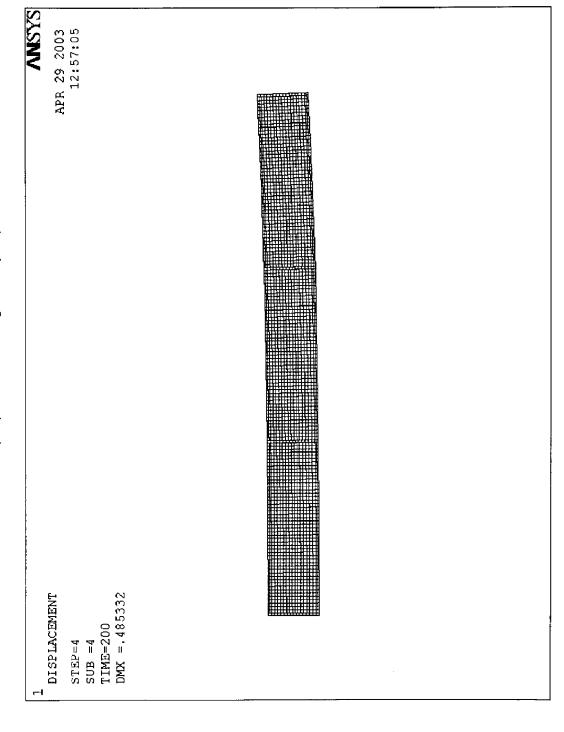
PC3 Location 5 – 1000 years (Displacements magnified by 50)



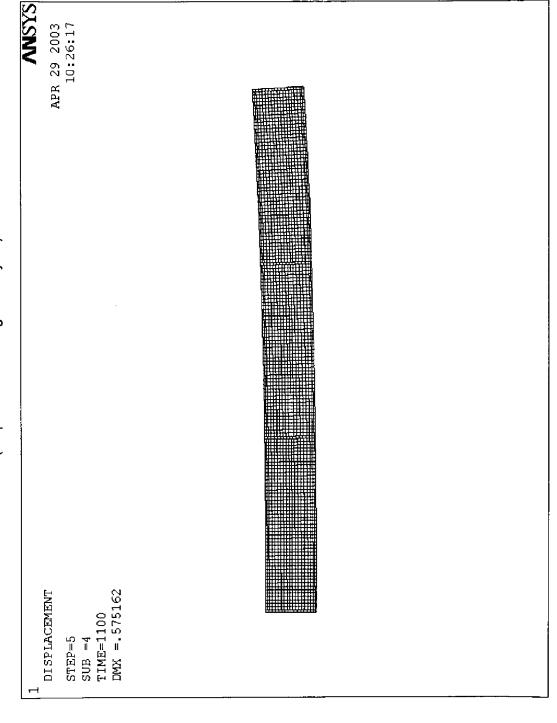
PC3 Location 5 – 5000 years (Displacements magnified by 50)



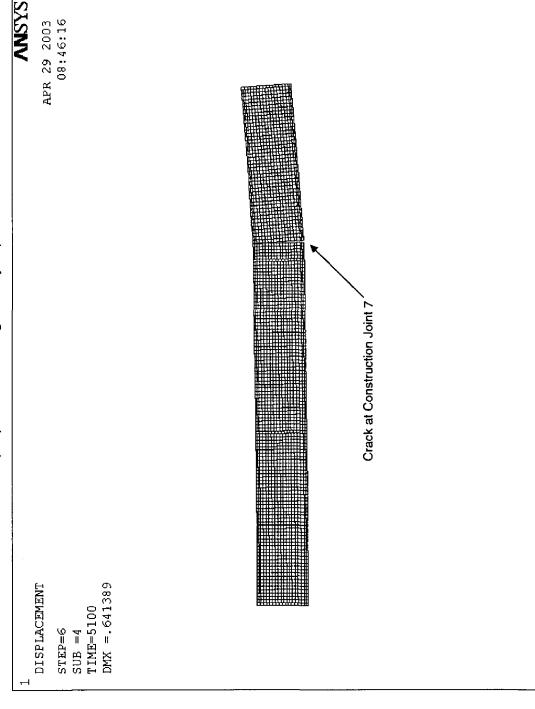
PC3 Location 6 – 100 years (Displacements magnified by 50)



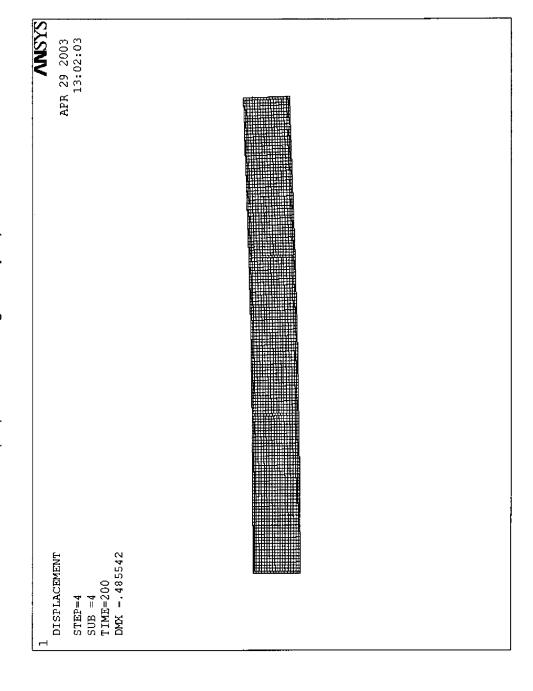
PC3 Location 6 – 1000 years (Displacements magnified by 50)



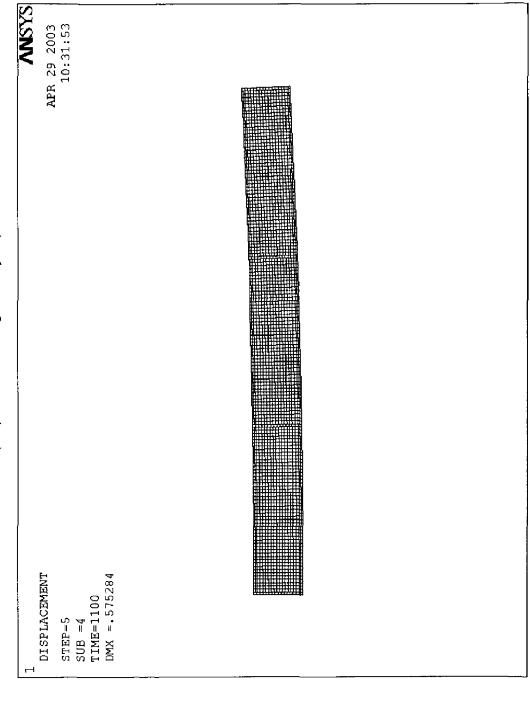
PC3 Location 6 – 5000 years (Displacements magnified by 50)



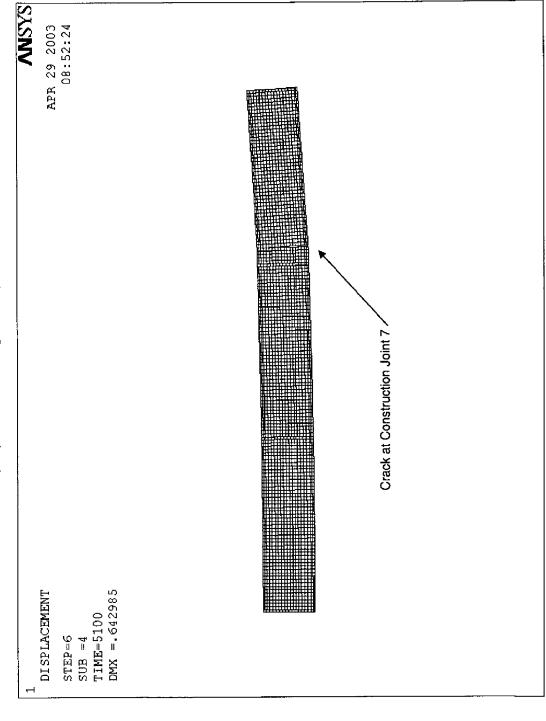
PC3 Location 7 – 100 years (Displacements magnified by 50)



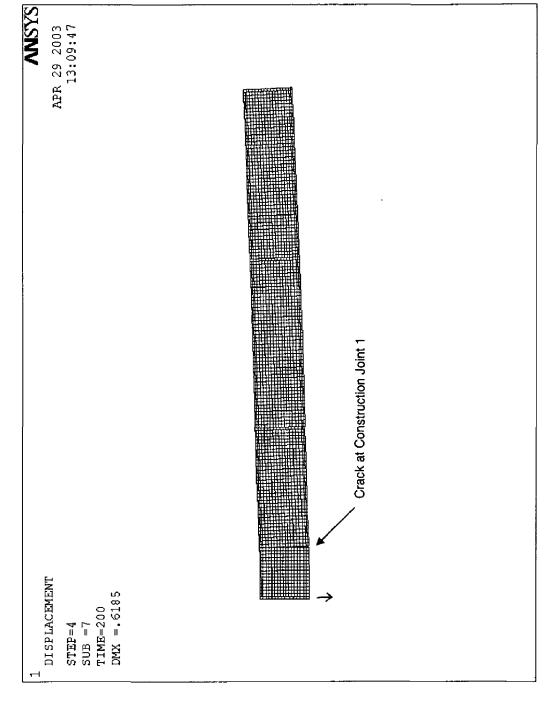
PC3 Location 7 – 1000 years (Displacements magnified by 50)



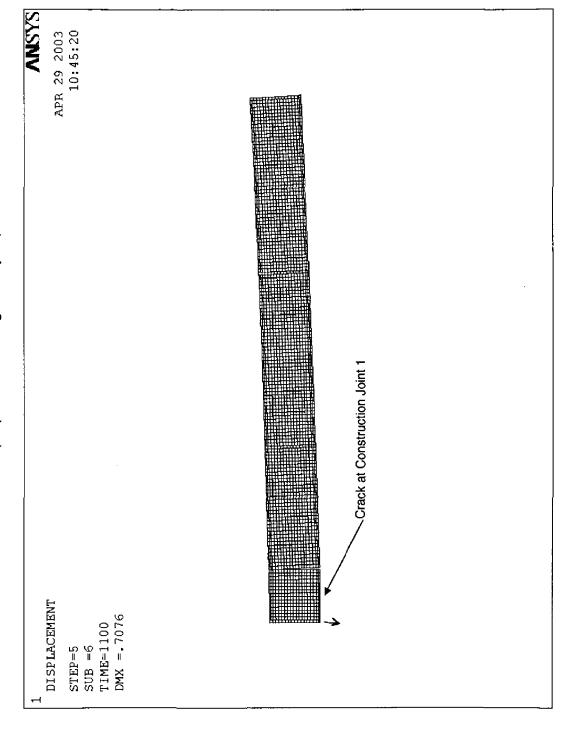
PC3 Location 7 – 5000 years (Displacements magnified by 50)



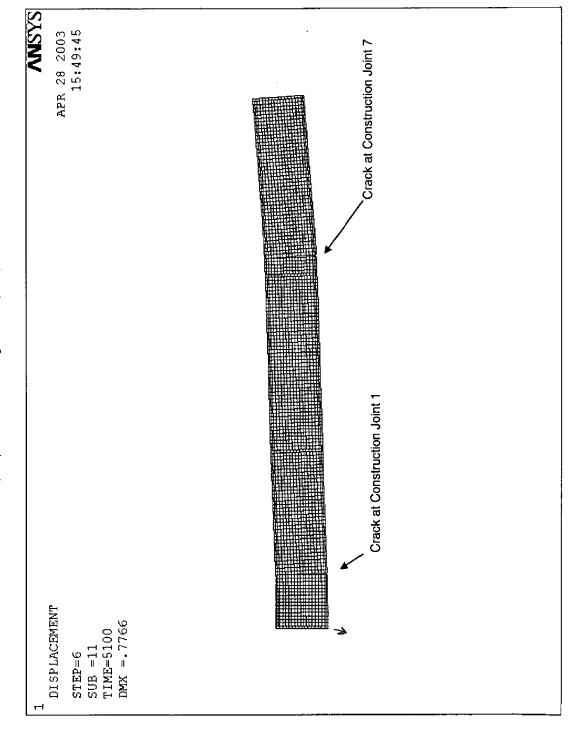
PC4 Location 1 – 100 years (Displacements magnified by 50)



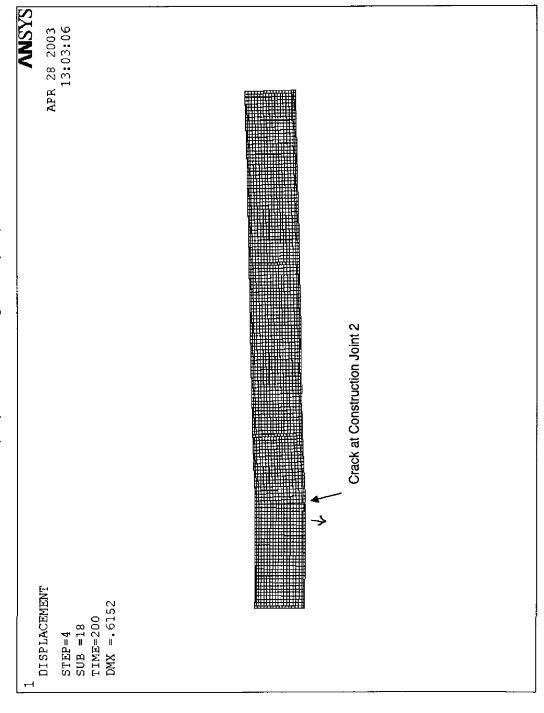
PC4 Location 1 – 1000 years (Displacements magnified by 50)



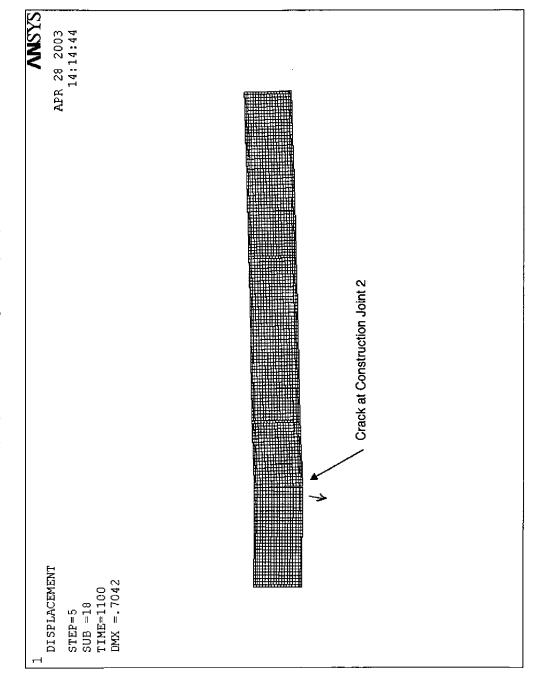
PC4 Location 1 – 5000 years (Displacements magnified by 50)



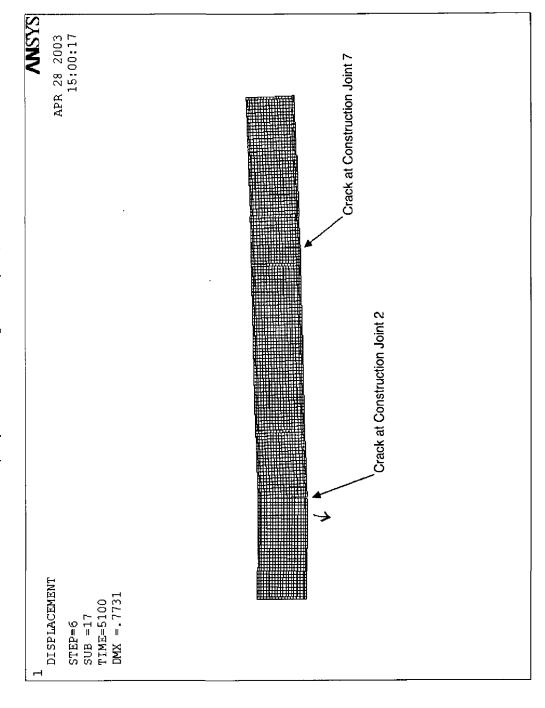
PC4 Location 2 – 100 years (Displacements magnified by 25)



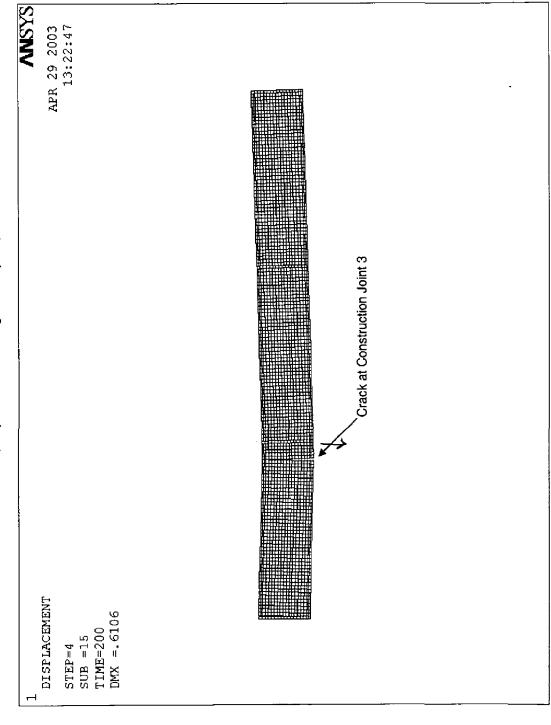
PC4 Location 2 – 1000 years (Displacements magnified by 25)



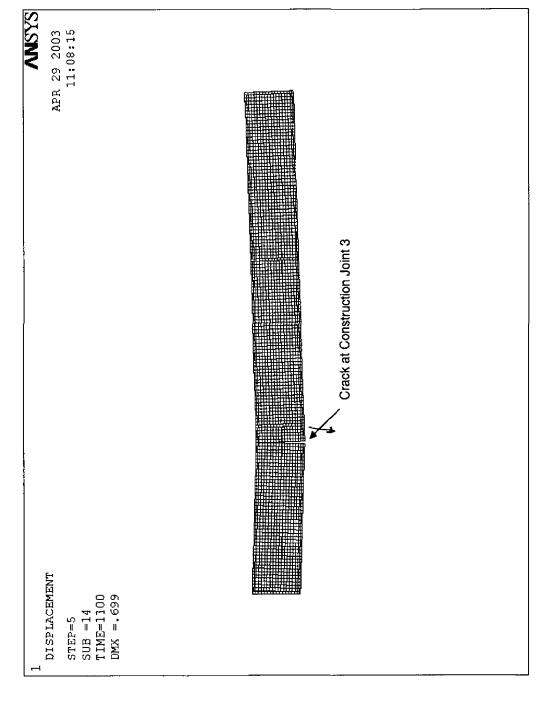
PC4 Location 2 – 5000 years (Displacements magnified by 25)



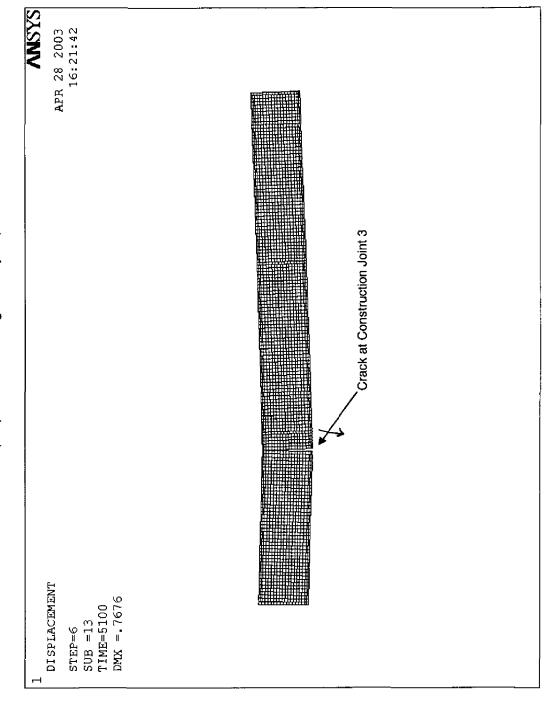
PC4 Location 3 – 100 years (Displacements magnified by 25)



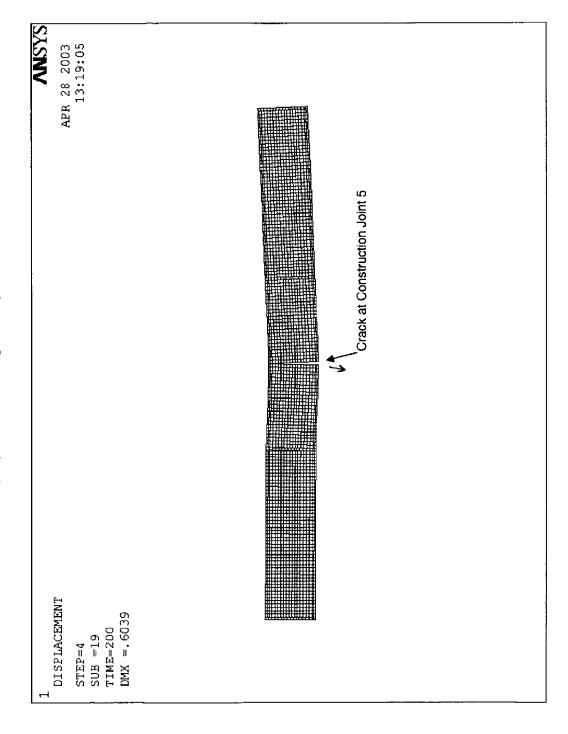
PC4 Location 3 – 1000 years (Displacements magnified by 25)



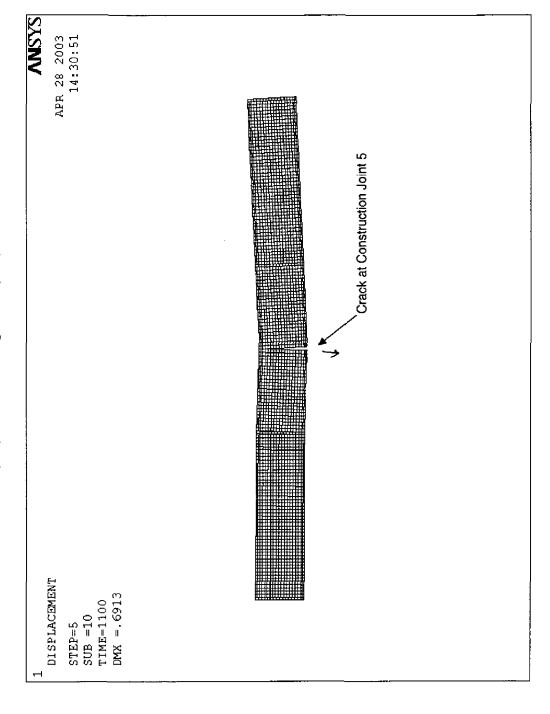
PC4 Location 3 – 5000 years (Displacements magnified by 25)



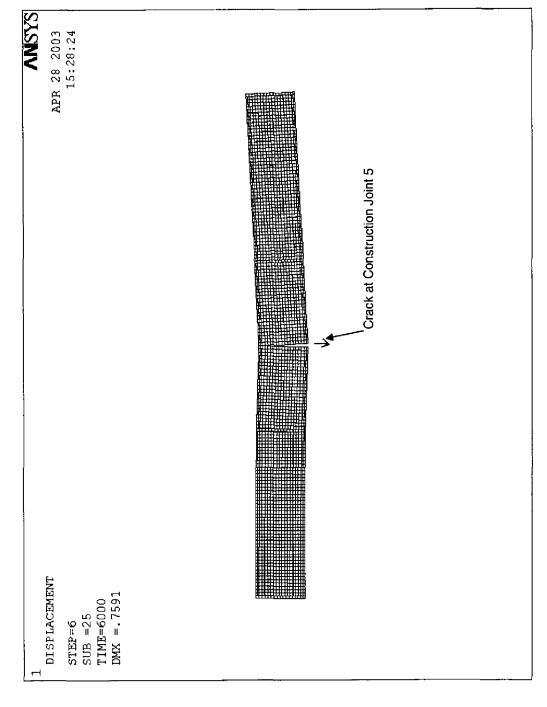
PC4 Location 4 – 100 years (Displacements magnified by 25)



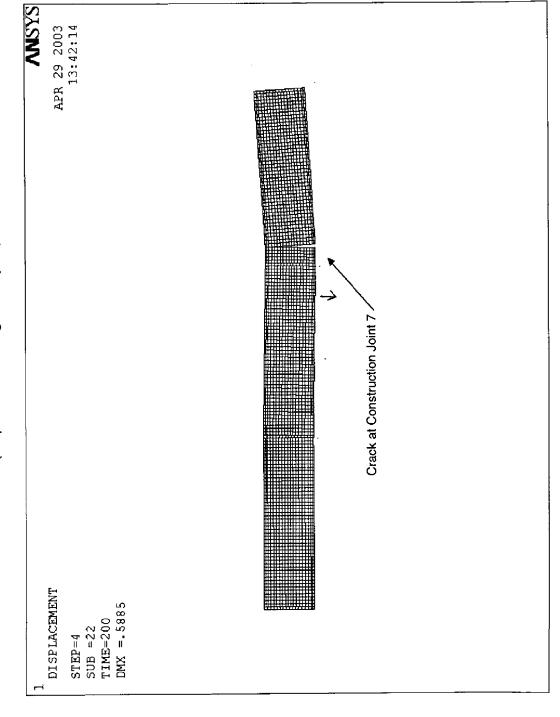
PC4 Location 4 – 1000 years (Displacements magnified by 25)



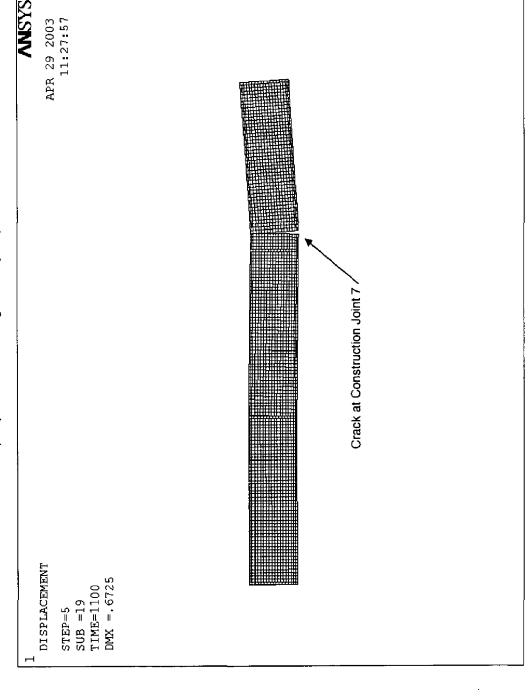
PC4 Location 4 – 5000 years (Displacements magnified by 25)



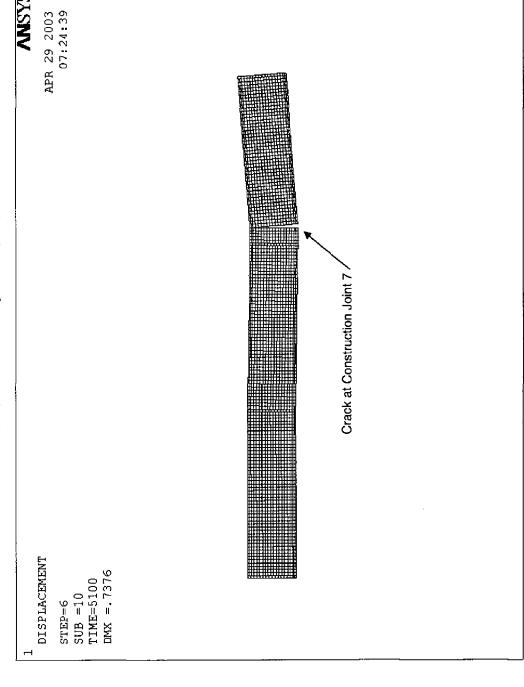
PC4 Location 5 – 100 years (Displacements magnified by 25)



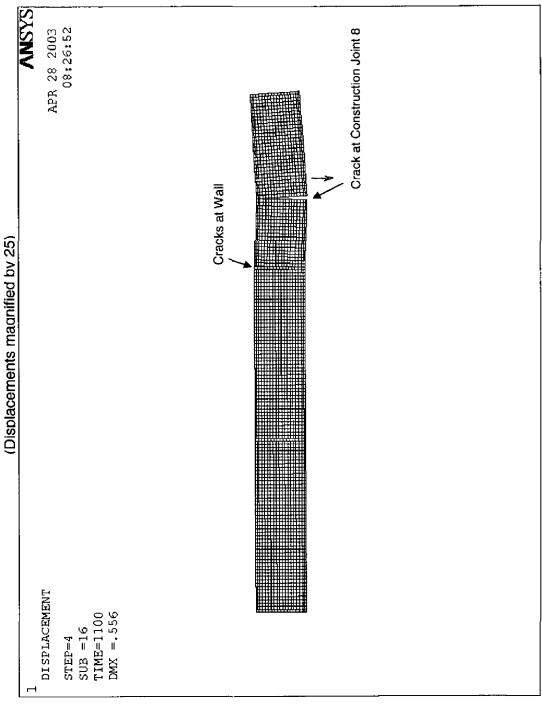
PC4 Location 5 -- 1000 years (Displacements magnified by 25)



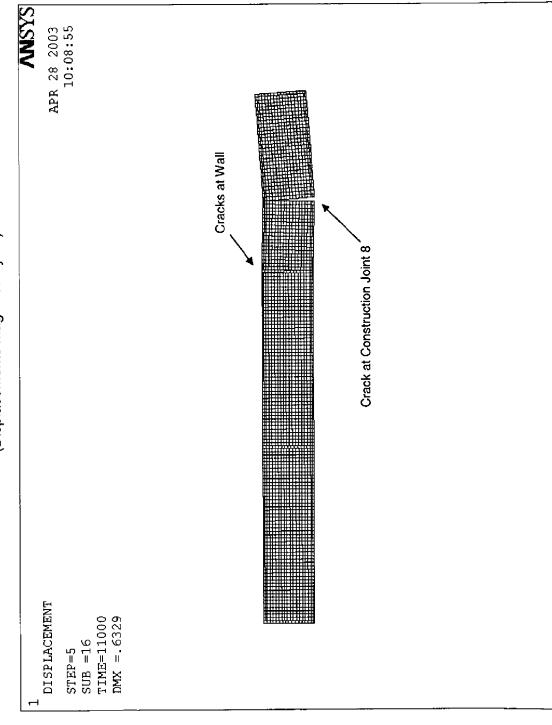
PC4 Location 5 – 5000 years (Displacements magnified by 25)



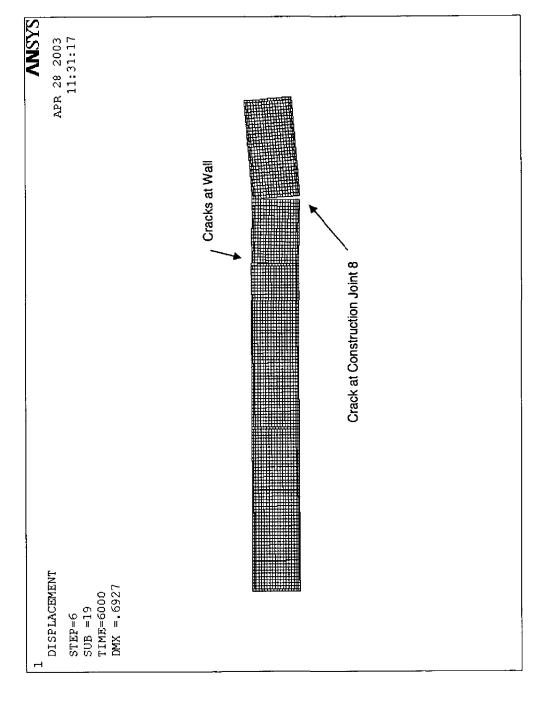
PC4 Location 6 – 100 years (Displacements magnified by 25)



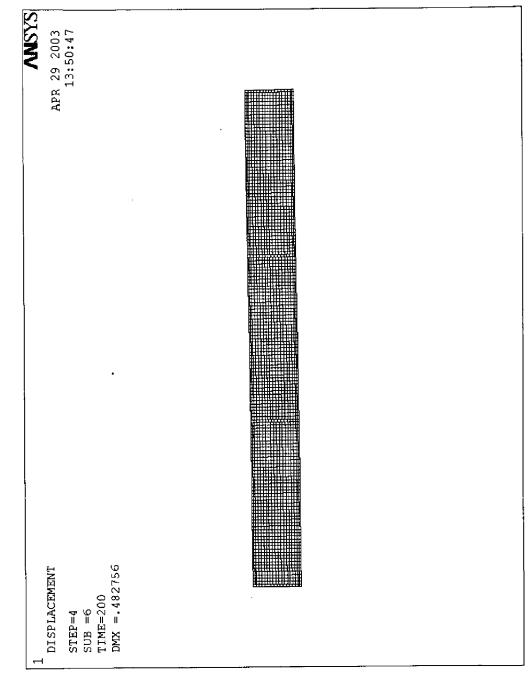
PC4 Location 6 – 1000 years (Displacements magnified by 25)



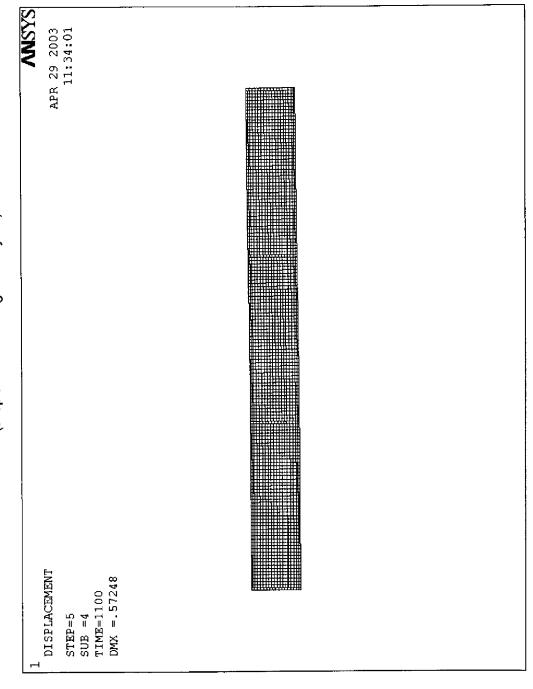
PC4 Location 6 – 5000 years (Displacements magnified by 25)



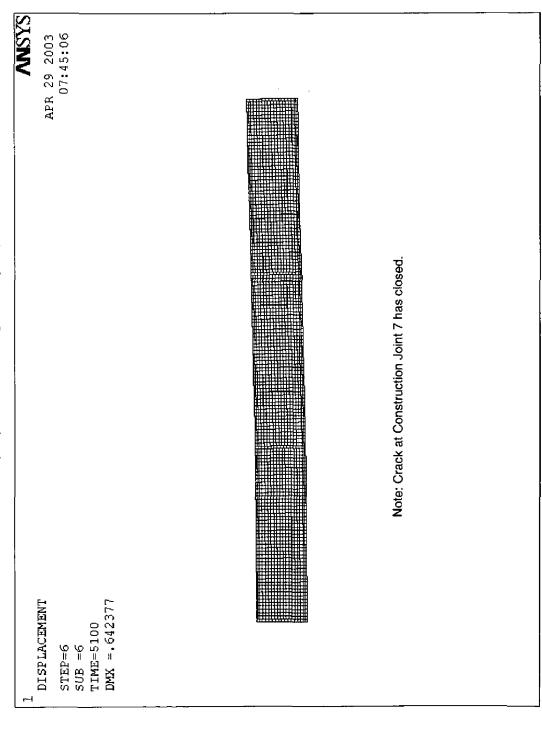
PC4 Location 7 – 1000 years (Displacements magnified by 50)



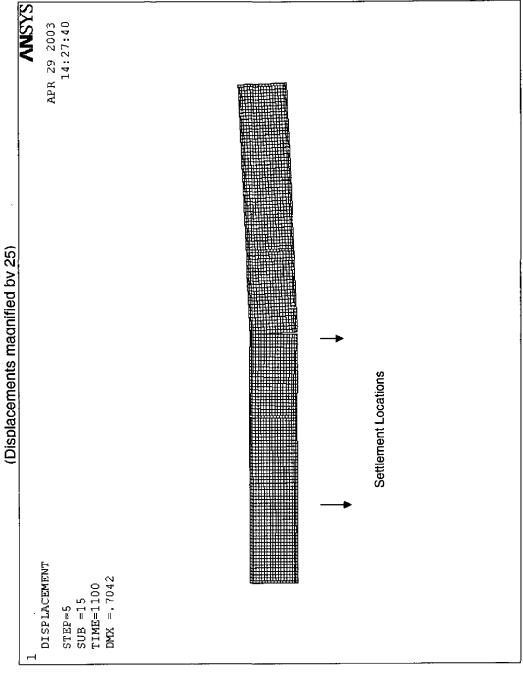
PC4 Location 7 – 1000 years (Displacements magnified by 50)

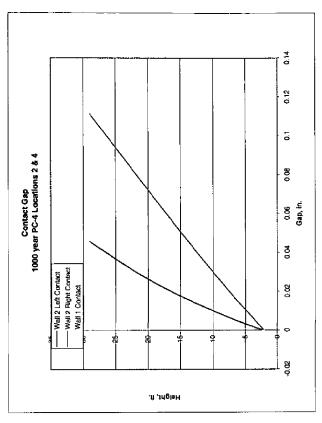


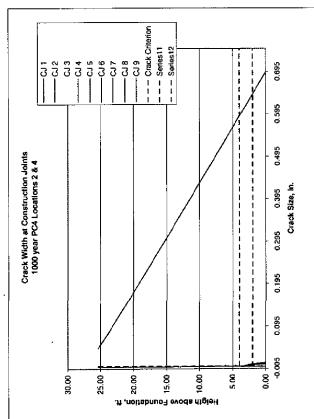
PC4 Location 7 – 5000 years (Displacements magnified by 50)



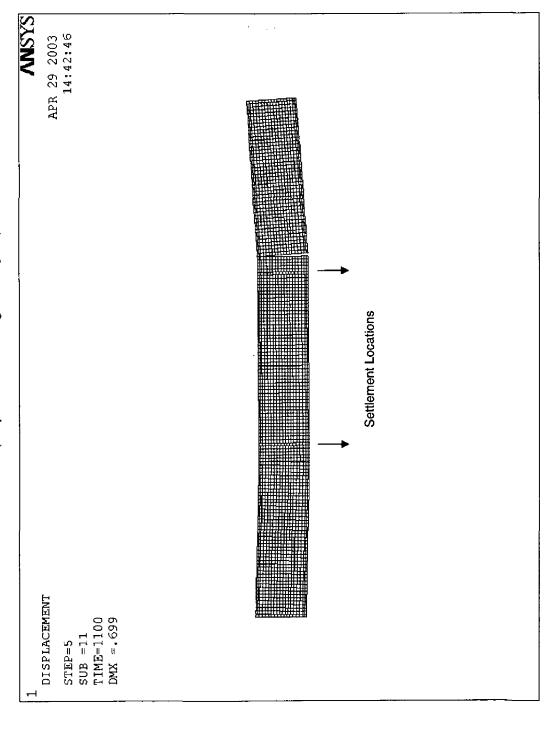
PC4 Locations 2 & 4 ~ 1000 years (Displacements magnified by 25)

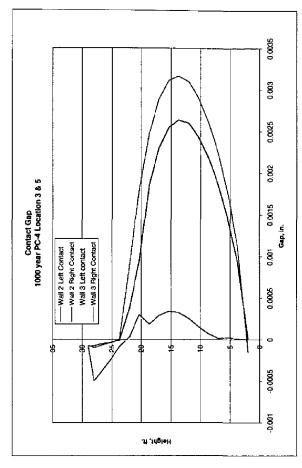


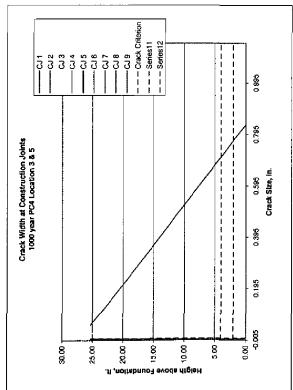




PC4 Locations 3 & 5 – 1000 years (Displacements magnified by 25)





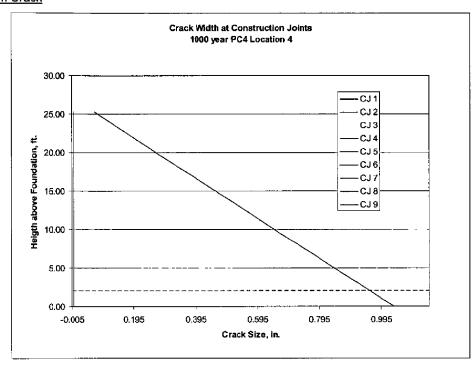


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### **Examples of Crack Area Calculations**

Example 1. PC-4, Mean Properties, Location 4, Extent = 62 ft. Time = 1000 years

### **Bottom Crack**



A single crack with a width of 0.959" (measured at the bottom of the saltstone) and a length of abo 27 ft. occurs. The crack area is calculated as a triangle closed at the top.

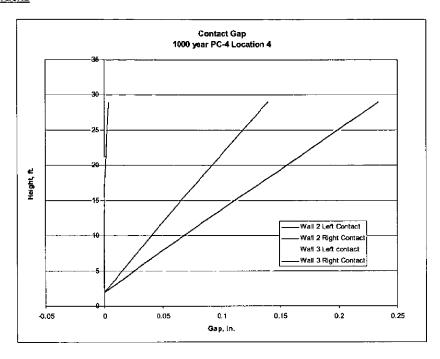
Area := 
$$\frac{1}{2}$$
·Len·Wid Area =  $155.52 \text{ in}^2$ 

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### Calculation **Continuation Sheet**

Sheet 146

Top Cracks



In this case, two cracks occur at wall 2. The widths are 0.140" and 0.234". The length is 27 ft.

$$Wid := 0.14in + 0.23in$$

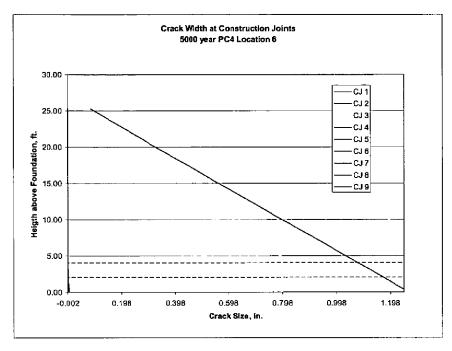
Area := 
$$\frac{1}{2}$$
·Len·Wid Area = 59.94 in²

$$Area = 59.94 \, \text{in}^2$$

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### Example 2. PC -4, Low Saltstone Modulus, Location 6, Extent = 62 ft. Time = 5000 years

### **Bottom Cracks**

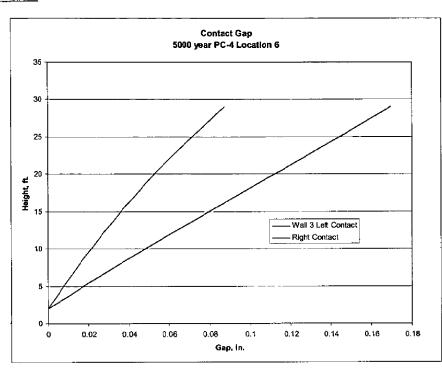


Len := 27ft

Wid := 1.17in

Area := 
$$\frac{1}{2}$$
·Len·Wid Area =  $189.54$ in²

### Top Cracks



W1 := 0.087in

W2 := 0.170in

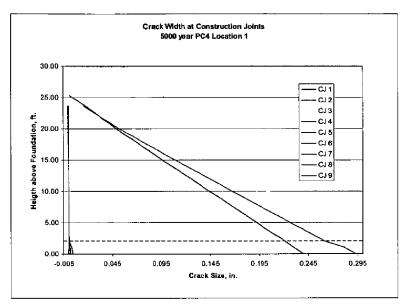
Wid := W1 + W2

Len:=27ft

Area :=  $\frac{1}{2}$ ·Len·Wid Area = 41.634in²

Example 3. PC -4, High Soil Modulus, Location 1, Extent = 124 ft. Time = 5000 years

### **Bottom Cracks**



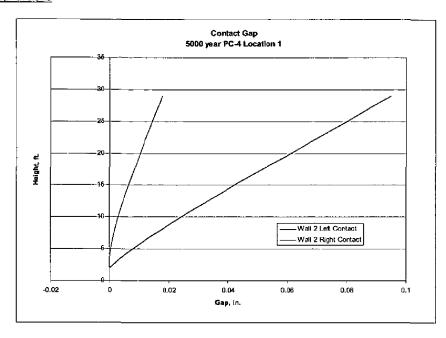
Note that cracks occur at both joints 1 and 7. The crack at joint 7 is caused by static settlement and is accounted for separately.

Wid := 0.221 in

Len := 25ft

Area :=  $\frac{1}{2}$ ·Len·Wid Area = 33.15 in  2 

### Top Cracks



W1 := 0in

W2 := 0.09in

Wid := W1 + W2

Len := 27ft

Area :=  $\frac{1}{2}$ ·Len·Wid Area =  $14.58 \text{ in}^2$ 

Note, the crack at the right side of wall w is on the order of 0.02 inches and is not used. In general cracks of this magnitude were not used in the analysis since they did not add appreciably to the overall crack area. (Area = 2.3 in² in this case.)

# Cracking Due to Static Settlement A. Vary Saltstone Modulus

A. Valy Sai	istone modulus			Dottom	Time at
Index		Time	Settlement	Bottom Crack Area	Crack Initiation
MOOX	Saltstone Modulus	years	feet	in^2	Crack miliation
1	1.619E+05	100	-0.387	0	
2	1.619E+05	1000	-0.482	39	700
3	1.619E+05	5000	-0.549	46.8	700
4	2.048E+05	100	-0.343	0	
5	2.048E+05	1000	-0.482	0	
6	2.048E+05	5000	-0.549	49.92	3300
7	2.396E+05	100	-0.387	3.9	415
8	2.396E+05	1000	-0.482	43.68	1950
9	2.396E+05	5000	-0.549	51.48	1000
10	1.834E+05	5000	-0.549	48.67	
11	2.222E+05	5000	-0.549	50.86	4450
12	2.309E+05	5000	-0.549	51.17	5000
13	2.350E+05	10000	-0.578	55.54	5550
14	2.370E+05	10000	-0.578	55.69	5800
15	2.380E+05	1000	-0.482	43.06	370
16	2.390E+05	1000	-0.482	43.06	370
17	2.400E+05	1000	-0.482	43.06	415
18	2.420E+05	1000	-0.482	43.21	410
19	2.440E+05	1000	-0.482	43.21	400
20	2.45E+05	1000	-0.482	43.06	600
21	2.460E+05	10000	-0.578	56	7300
22	2.500E+05	10000	-0.578	56.16	8150

### 1 B.Vary Saltstone Cracking Strain

			Bottom
Cracking	Time	Settlemer	nt Crack Area
Strain	years	feet	in^2
7.540E-05	50	-0.358	0
7.540E-05	50	-0.358	20.25
7.540E-05	100	-0.387	25.05
7.540E-05	1000	-0.482	35.412
7.540E-05	5000	-0.549	42.588
8.500E-05	99	-0.387	0
8.500E-05	99	-0.387	21.75
8.500E-05	100	-0.387	24.9
8.500E-05	1000	-0.482	35.256
8.500E-05	5000	-0.549	42.588
9.800E-05	550	-0.458	0
9.800E-05	550	-0.458	28.05
9.800E-05	1000	-0.482	35.412
9.800E-05	5000	-0.549	42.744
1,206E-04	100	-0.387	0
1.206E-04	1000	-0.482	0
1.206E-04	3300	-0.532	0
1.206E-04	3300	-0.532	46.8
1.206E-04	5000	-0.549	49.92
1.309E-04	6150	-0.557	0
1.309E-04	6150	-0.557	51.012
1.309E-04	10000	-0.578	54.288
1.411E-04	100	-0.387	0
1.411E-04	1000	-0.482	0
1.411E-04	3300	-0.532	0
1.411E-04	3300	-0.532	0
1.411E-04	5000	-0.549	0
	Strain 7.540E-05 7.540E-05 7.540E-05 7.540E-05 7.540E-05 8.500E-05 8.500E-05 8.500E-05 8.500E-05 9.800E-05 9.800E-05 9.800E-05 1.206E-04 1.206E-04 1.206E-04 1.206E-04 1.309E-04 1.309E-04 1.309E-04 1.411E-04 1.411E-04 1.411E-04	Strain         years           7.540E-05         50           7.540E-05         50           7.540E-05         100           7.540E-05         1000           7.540E-05         5000           8.500E-05         99           8.500E-05         100           8.500E-05         1000           8.500E-05         5000           9.800E-05         500           9.800E-05         550           9.800E-05         500           1.206E-04         100           1.206E-04         100           1.206E-04         3300           1.206E-04         3300           1.309E-04         6150           1.309E-04         1000           1.411E-04         100           1.411E-04         100           1.411E-04         3300	Strain         years         feet           7.540E-05         50         -0.358           7.540E-05         50         -0.358           7.540E-05         100         -0.387           7.540E-05         1000         -0.482           7.540E-05         5000         -0.549           8.500E-05         99         -0.387           8.500E-05         99         -0.387           8.500E-05         100         -0.387           8.500E-05         1000         -0.482           8.500E-05         5000         -0.549           9.800E-05         550         -0.458           9.800E-05         550         -0.458           9.800E-05         5000         -0.549           1.206E-05         5000         -0.549           1.206E-04         100         -0.387           1.206E-04         100         -0.482           1.206E-04         300         -0.532           1.206E-04         300         -0.557           1.309E-04         6150         -0.557           1.309E-04         6150         -0.578           1.411E-04         1000         -0.482           1.411E-04

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# 2. Differential Displacement at Location 1 2.A. Differential Displacement Magnitude

		Time	Settlement	Bottom Crack Area
Index	Magnitude, in	years	feet	in^2
50	1.5	100	-0.387	0
51	1.5	1000	-0.482	13.2
52	1.5	5000	-0.549	10.68
53	2	100	-0.387	16.56
54	2	1000	-0.482	20.286
55	2	5000	-0.549	20.1
56	2.75 (PC-4)	100	-0.387	24.48
57	2.75	1000	-0.482	29.4
58	2.75	5000	-0.549	30
59	2.75	5000	-0.549	31.5

## 2.B. Vary Settlement Extent PC-4 Event

			Bottom
	Time	Settlement	Crack Area
Extent, ft.	years	feet	in^2
62	100	-0.387	24.48
62	1000	-0.482	29.4
62	5000	-0.549	30
62	5000	-0.549	31.5
124	100	-0.387	73.32
124	1000	-0.482	73.32
124	5000	-0.549	78
124	5000	-0.549	34.5
	62 62 62 62 62 124 124	Extent, ft.     years       62     100       62     1000       62     5000       62     5000       124     100       124     1000       124     5000	Extent, ft.         years         feet           62         100         -0.387           62         1000         -0.482           62         5000         -0.549           62         5000         -0.549           124         100         -0.387           124         1000         -0.482           124         5000         -0.549

## 2.C. Vary Saltstone Modulus PC-4 Event

				Bottom
	Saitstone Modulus	Time	Settlement	Crack Area
Index	ksf	years	feet	in^2
68	1.619E+05	100	-0.387	23.04
69	2.048E+05	100	-0.387	24.48
70	2.396E+05	100	-0.387	27
71	1.619E+05	1000	-0.482	27
72	2.048E+05	1000	-0.482	29.484
73	2.396E+05	1000	-0.482	30
74	1.619E+05	5000	-0.549	25.92
75	2.048E+05	5000	-0.549	28.5
76	2.396E+05	5000	-0.549	30

### 2.D Vary Saltstone Cracking Strain

	Event	Cracking Strain	Time	Settlement	Bottom Crack Area
Index		in/in	years	feet	in^2
77	PC-3	7.540E-05	1000	-0.482	4.794
78	PC-3	7.540E-05	5000	-0.549	4.998
79	PC-4	7.540E-05	100	-0.387	28.5
80	PC-4	7.540 <b>E</b> -05	1000	-0.482	28.5
81	PC-4	7.540E-05	5000	-0.549	30.45
82	PC-4	1.206E-04	100	-0.387	26.85
83	PC-4	1.206E-04	1000	-0.482	27.3
84	PC-4	1.206E-04	5000	-0.549	30
85	PC-4	1.411E-04	100	-0.387	23.904
86	PC-4	1.411E-04	1000	-0.482	27.3
87	PC-4	1.411F-04	5000	-0.549	28.2

### 2.E. Vary Soil Bulk Modulus

					Bottom	Тор
	Event	Soil Bulk Modulus	Time	Settlement		Crack Area
Index		ksf	years	feet	in^2	in^2
88	PC4	20	100	-0.387	27	
89	PC4	20	1000	-0.482	28.5	
90	PC4	20	5000	-0.549	30	
91	PC4	30	100	-0.387	25.5	
92	PC4	30	1000	-0.482	27	
93	PC4	30	5000	-0.549	30	
94	PÇ4	40	100	-0.387	29.232	
95	PC4	40	1000	-0.482	29.4	
96	PC4	40	5000	-0.549	33.15	
97	PC4	40	100	-0.387		8.28
98	PC4	40	1000	-0.482		16.2
99	PC4	40	5000	-0.549		14.58

## Differential Displacement at Location 2 A.A. Differential Displacement Magnitude

	p			Bottom	Тор
Index	Magnitude, In	Time	Settlement feet	Crack Area	Crack Area in^2
	<del>-</del> '	years			111112
100	2.75	100	-0.387	74.88	
101	2.75	1000	-0.482	73.32	
102	0.75	1000		0	
103	1.5	1000	-0.482	27.9	
104	2	1000	-0.482	33.9	
105	2.375	1000	-0.482	41.34	
106	2.5	1000	-0.482	52.26	
107	2.75	1000	-0.482	73.32	
108	2.75	5000	-0.549	76.44	
109	2.75	100	-0.387		43.74
110	1.5	1000	-0.482		0
111	2	1000	-0.482		0
112	2.375	1000	-0.482		0
113	2.5	1000	-0.482		12.63
114	2.75	1000	-0.482		37.26
<b>1</b> 15	2.75	5000	-0.549		40.5

## 3.B. Vary Settlement Extent

PC-4 Event				Bottom	Top
		Time	Settlement	Crack Area	Crack Area
Index	Extent, ft.	years	feet	in^2	in^2
116	62	100	-0.387	74.88	
117	62	1000	-0.482	73.32	
118	62	5000	-0.549	76.44	
119	62	100	-0.387		43.74
120	62	1000	-0.482		37.26
121	62	5000	-0.549		40.5
122	124	100	-0.387	120.204	
123	124	1000	-0.482	118.26	
124	124	5000	-0.549	116.64	
125	124	100	-0.387		76.63
126	124	1000	-0.482		68.04
127	124	5000	-0.54 <del>9</del>		63.18

3.C. Vary Saltstone Modulus PC-4 Event

C-4 Event				Bottom	Тор
	Saltstone Modulus	Time	Settlement	Crack Area	Crack Area
Index	ksf	years	feet	in^2	in^2
128	1.619E+05	100	-0.387	80.68	
129	1.619E+05	1000	-0.482	81.49	
130	1.619E+05	5000	-0.549	81.65	
131	1.619E+05	100	-0.387		47.47
132	1.619E+05	1000	-0.482		46.98
`133	1.619E+05	5000	-0.549		45.04
134	2.048E+05	100	-0.387	75.35	
135	2.048E+05	1000	-0.482	73.01	
136	2.048E+05	5000	-0.549	76.28	
137	2.048E+05	100	-0.387		43.74
138	2.048E+05	1000	-0.482		35.80
139	2.048E+05	5000	-0.549		41.80
140	2.396E+05	100	-0.387	76.14	
141	2.396E+05	1000	-0.482	76.14	
142	2.396E+05	5000	-0.549	77.76	
143	2.396E+05	100	-0.387		41.80
144	2.396E+05	1000	-0.482		40.50
145	2.396E+05	5000	-0.549		39.04

### 3.D Vary Saltstone Cracking Strain

	Event	Cracking Strain	Time	Cottlement	Bottom Crack Area	Top Crack Area
Index	Evelit	in/in	vears	feet	in^2	In^2
146	PC-3	7.540E-05	100	-0.387	8.4	2
147	PC-3	7.540E-05	1000	-0.482	8.76	
148	PC-3	7.540E <b>-0</b> 5	5000	-0.5 <b>49</b>	7.68	
149	PC-4	7.540E-05	100	-0.3 <b>87</b>	77.76	
150	PC-4	7.540E-05	1000	-0.482	76.14	
151	PC-4	7.540E-05	5000	-0.549	76.14	
152	PC-4	7.540E-05	100	-0.387		43.902
153	PC-4	7.540E-05	1000	-0.482		36.45
154	PC-4	7.540E-05	5000	-0.549		34.344
155	PC-4	1.206E-04	100	-0.387	77.76	
156	PC-4	1.206E-04	1000	-0.482	76.14	
157	PC-4	1.206E-04	5000	-0.549	79.38	
158	PC-4	1.206E-04	100	-0.387		43.74
159	PC-4	1.206E-04	1000	-0.482		35.802
160	PC-4	1.206E-04	5000	-0.549		41.796
161	PC-4	1.411E-04	100	-0.387	78.894	
162	PC-4	1.411E-04	1000	-0.482	75.654	
163	PC-4	1.411E-04	5000	-0.549	73.872	
164	PC-4	1.411E-04	100	-0.387		39.528
165	PC-4	1.411E-04	1000	-0.482		35.802
166	PC-4	1.411E-04	5000	-0.5 <b>49</b>		29.646

**Bottom** 

Top

### 3.E. Vary Soil Bulk Modulus

	Event	Soil Bulk Modulus	Time	Settlement	Bottom Crack Area	Top Crack Area
Index		ksf	years	feet	In^2	in^2
167	PC3	20	5000	-0.549	24	
168	PC4	20	100	-0.387	43.68	
169	PC4	20	1000	-0.482	46.8	
170	PC4	20	5000	-0.549	48.36	
171	PC4	30	100	-0.387	<b>7</b> 7.76	
172	PC4	30	1000	-0.482	76.14	
173	PC4	30	5000	-0.549	79.38	
174	PC4	40	100	-0.387	126.36	
175	PC4	40	1000	-0.482	129.6	
176	PC4	40	5000	-0.549	129.6	
177	PC4	30	100	-0.387		43.74
178	PC4	30	1000	-0.482		37.26
179	PC4	30	5000	-0.549		40.5
180	PC4	40	100	-0.387		102.06
181	PC4	40	1000	-0.482		105.3
182	PC4	40	5000	-0.549		105.3

### 4. Differential Displacement at Location 3

### 4.A. Differential Displacement Magnitude

	Time	Settlement	Crack Area	Crack Area
Magnitude, in	years	feet	in^2	in^2
0.75	1000	-0.482	25.5	
0.75	5000	-0.549	45.24	
1.5	1000	-0.482	51.792	
2	1000	-0.482	65.985	
2.75	100	-0.387	105.3	
2.75	1000	-0.482	110.16	
2.75	5000	-0.549	115.02	
2.75	100	-0.387		53.46
2.75	1000	-0.482		55.08
2.75	5000	-0.549		55.08
	0.75 0.75 1.5 2 2.75 2.75 2.75 2.75 2.75 2.75	Magnitude, in         years           0.75         1000           0.75         5000           1.5         1000           2         1000           2.75         100           2.75         1000           2.75         5000           2.75         100           2.75         100           2.75         100           2.75         100	Magnitude, in         years         feet           0.75         1000         -0.482           0.75         5000         -0.549           1.5         1000         -0.482           2         1000         -0.482           2.75         100         -0.387           2.75         1000         -0.482           2.75         5000         -0.549           2.75         100         -0.387           2.75         100         -0.482	Magnitude, in         years         feet         in^2           0.75         1000         -0.482         25.5           0.75         5000         -0.549         45.24           1.5         1000         -0.482         51.792           2         1000         -0.482         65.985           2.75         100         -0.387         105.3           2.75         1000         -0.482         110.16           2.75         5000         -0.549         115.02           2.75         100         -0.387           2.75         100         -0.482

## 4.B. Vary Settlement Extent PC-4 Event

C-4 Event		Time	Settlement	Bottom Crack Area	Top Crack Area
Index	Extent, ft.	years	feet	in^2	in^2
193	62	1000	-0.482	25.5	
194	62	5000	-0.549	45.24	
195	124	100	-0.387	15.12	
196	124	1000	-0.482	45.24	
197	124	5000	-0.549	63	
198	62	100	-0.387	105.3	
199	62	1000	-0.482	110.16	
200	62	5000	-0.549	115.02	
201	62	100	-0.387		53.46
202	62	1000	-0.482		55.08
203	62	5000	-0.549		55.08
204	124	100	-0.387	174.96	
205	124	1000	-0.482	178.2	
206	124	5000	-0.549	177.9	
207	124	100	-0.387		119.88
208	124	1000	-0.482		108.54
209	124	5000	-0.549		103.68

### 4.C. Vary Saltstone Modulus

Valy Salts	CONTE MOGUNAS				D-H	<b>T</b>
	Event	Saltstone Modulus	Time	Cattlement	Bottom Crack Area	Top Crack Area
Index	FACIII	ksf		feet	in^2	in^2
	DO 0		years			III Z
210	PC-3	1.619E+05	1000	-0.482	34.32	
211	PC-3	1.619E+05	5000	-0.549	51.624	
212	PC-3	2.048E+05	1000	-0.482	25.5	
213	PC-3	2.048E+05	5000	-0.549	45.24	
214	PC-3	2.396E+05	1000	-0.482	39	
215	PC-3	2.396E+05	5000	-0.549	45.24	
216	PC-4	1.619E+05	100	-0.387	103.68	
217	PC-4	1.619E+05	1000	-0.482	110.16	
218	PC-4	1.619E+05	5000	-0.549	115.02	
219	PC-4	2.048E+05	100	-0.387	105.3	
220	PC-4	2.048E+05	1000	-0.482	110.16	
221	PC-4	2.048E+05	5000	-0.549	115.02	
222	PC-4	2.396E+05	100	-0.387	103.68	
223	PC-4	2.396E+05	1000	-0.482	110.16	
224	PC-4	2.396E+05	5000	-0.549	115.02	
225	PC-4	1.619E+05	100	-0.387		52.812
226	PC-4	1.619E+05	1000	-0.482		54.27
227	PC-4	1.619E+05	5000	-0.549		55.242
228	PC-4	2.048E+05	100	-0.387		52.812
229	PC-4	2.048E+05	1000	-0.482		54.594
230	PC-4	2.048E+05	5000	-0.549		55.566
231	PC-4	2.396E+05	100	-0.387		52.974
232	PC-4	2.396E+05	1000	-0.482		54.594
233	PC-4	2.396E+05	5000	-0.549		55.566

### 4.D Vary Saltstone Cracking Strain

•				Bottom	Тор
Event	Cracking Strain	Time	Settlement	Crack Area	Crack Area
	in/in	years	feet	in^2	in^2
PC-3	7.540E-05	100	-0.387	14.4	
PC-3	7.540E-05	1000	-0.482	13.2	
PC-3	7.540E-05	5000	-0.549	17.28	
PC-3	1.206E-04	1000	-0.482	24	
PC-4	7.540E-05	100	-0.387	105.3	
PC-4	7.540E-05	1000	-0.482	110.16	
PC-4	7.540E-05	5000	-0.549	115.02	
PC-4	1.206E-04	100	-0.387	105.3	
PC-4	1.206E-04	1000	-0.482	110.16	
PC-4	1.206E-04	5000	-0.549	115.02	
PC-4	1.411E-04	100	-0.387	104.652	
PC-4	1.411E-04	1000	-0.482	110.808	
PC-4	1.411E-04	5000	-0.549	115.182	
PC-4	7.540E-05	100	-0.387		53.46
PC-4	7.540E-05	1000	-0.482		55.08
PC-4	7.540E-05	5000	-0.549		56.7
PC-4	1.206E-04	100	-0.387		53.46
PC-4	1.206E-04	1000	-0.482		55.08
PC-4	1.206E-04	5000	-0.549		55.08
PC-4	1.411E-04	100	-0.387		52.812
PC-4	1.411E-04	1000	-0.482		54.594
PC-4	1.411E-04	5000	-0.549		55.728
	PC-3 PC-3 PC-3 PC-3 PC-4 PC-4 PC-4 PC-4 PC-4 PC-4 PC-4 PC-4	In/In PC-3 7.540E-05 PC-3 7.540E-05 PC-3 7.540E-05 PC-3 7.540E-05 PC-3 1.206E-04 PC-4 7.540E-05 PC-4 7.540E-05 PC-4 1.206E-04 PC-4 1.206E-04 PC-4 1.411E-04 PC-4 1.411E-04 PC-4 7.540E-05 PC-4 7.540E-05 PC-4 1.411E-04 PC-4 1.411E-04 PC-4 1.411E-04 PC-4 1.411E-04 PC-4 7.540E-05 PC-4 7.540E-05 PC-4 7.540E-05 PC-4 7.540E-05 PC-4 1.206E-04 PC-4 1.206E-04 PC-4 1.206E-04 PC-4 1.206E-04 PC-4 1.206E-04 PC-4 1.206E-04 PC-4 1.411E-04 PC-4 1.411E-04	In/in years PC-3 7.540E-05 100 PC-3 7.540E-05 1000 PC-3 7.540E-05 5000 PC-3 1.206E-04 1000 PC-4 7.540E-05 1000 PC-4 7.540E-05 1000 PC-4 1.206E-04 1000 PC-4 1.206E-04 1000 PC-4 1.411E-04 1000 PC-4 1.411E-04 1000 PC-4 7.540E-05 1000 PC-4 1.411E-04 1000 PC-4 1.411E-04 1000 PC-4 7.540E-05 1000 PC-4 7.540E-05 1000 PC-4 1.411E-04 1000 PC-4 1.411E-04 1000 PC-4 7.540E-05 1000 PC-4 7.540E-05 1000 PC-4 7.540E-05 1000 PC-4 7.540E-05 1000 PC-4 1.206E-04 1000	In/In   years   feet	Event         Cracking Strain in/in         Time years years         feet feet feet feet feet feet feet feet

4.E. Vary Soil Bulk Modulus

					Bottom	Тор
	Event	Soil Bulk Modulus	Time	Settlement	Crack Area	Crack Area
Index		ksf	years	feet	in^2	in^2
256	PC3	20	1000	-0.482	29.64	
257	PC3	20	5000	-0.549	32.76	
258	PC3	30	1000	-0.482	24	
259	PC3	30	5000	-0.549	42.12	
260	PC3	40	100	-0.387	13.2	
261	PC3	40	1000	-0.482	35.88	
262	PC3	40	5000	-0.549	53.04	
263	PC4	20	100	-0.387	90.72	
264	PC4	20	1000	-0.482	97.2	
265	PC4	20	5000	-0.549	101.25	
266	PC4	30	100	-0.387	105.3	
267	PC4	30	1000	-0.482	110.16	
268	PC4	30	5000	-0.549	115.02	
269	PC4	40	100	-0.387	113.4	
270	PC4	40	1000	-0.482	119.88	
271	PC4	40	5000	-0.549	123.12	
272	PC4	20	100	-0.387		38.88
273	PC4	20	1000	-0.482		42.12
274	PC4	20	5000	-0.549		42.768
275	PC4	30	100	-0.387		53.46
276	PC4	30	1000	-0.482		55.08
277	PC4	30	5000	-0.549		55.08
278	PC4	40	100	-0.387		59.94
279	PC4	40	1000	-0.482		61.56
280	PC4	40	5000	-0.549		61.56

5. Differential Displacement at Location 4 5.A. Differential Displacement Magnitude

				Bottom	Top
		Time	Settlement	Crack Area	Crack Area
Index	Magnitude, in	years	feet	in^2	in^2
281	0.75	100	-0.387	42.12	
282	2	100	-0.387	102.222	
283	2.75	100	-0.387	147.42	
284	0.75	1000	-0.482	49.92	
285	2	1000	-0.482	111.78	
286	2.75	1000	-0.482	155.52	
287	0.75	5000	-0.549	56.16	
288	2	5000	-0.549	118.584	
289	2.75	5000	-0.549	162	
290	2	100	-0.387		29.16
291	2.75	100	-0.387		58.32
292	2	1000	-0.482		31.428
293	2.75	1000	-0.482		59.94
294	2	5000	-0.549		32.724
295	2.75	5000	-0.549		63.18

### 5.B. Vary Settlement Extent

					Bottom	Top
	Event		Time	Settlement	Crack Area	Crack Area
Index		Extent, ft.	years	feet	in^2	in^2
296	PC-3	62	100	-0.387	42.12	
297	PC-3	62	1000	-0.482	49.92	
298	PC-3	62	5 <b>000</b>	-0.549	56.16	
299	PC-3	124	100	-0.387	54.6	
300	PC-3	124	1000	-0.482	60.36	
301	PC-3	124	5000	-0.549	65.52	
302	PC-4	62	100	-0.387	147.42	
303	PC-4	62	1000	-0.482	155.52	
304	PC-4	62	5000	-0.549	162	
305	PC-4	124	100	-0.387	205.74	
306	PC-4	124	1000	-0.482	212.22	
307	PC-4	124	5000	-0.549	218.7	
308	PC-4	62	100	-0.387		58.32
309	PC-4	62	1000	-0.482		59.94
310	PC-4	62	5000	-0.549		63.18
311	PC-4	124	100	-0.387		95.58
312	PC-4	124	1000	-0.482		93.96
313	PC-4	124	5000	-0.549		97.2

### 5.C. Vary Saltstone Modulus

C. Vary Salts	stone Modulus				Bottom	Тор
	Event	Saltstone Modulus	Time	Settlement		Crack Area
Index		ksf	years	feet	in^2	in^2
314	PC-3	1.619E+05	100	-0.387	37.5	
315	PC-3	1.619E+05	1000	-0.482	43.68	
316	PC-3	1.619E+05	5000	-0.549	53.04	
317	PC-3	2.048E+05	100	-0.387	42.12	
318	PC-3	2.048E+05	1000	-0.482	49.92	
319	PC-3	2.048E+05	5000	-0.549	56.16	
320	PC-3	2.396E+05	100	-0.387	39	
321	PC-3	2.396E+05	1000	-0.482	49.92	
322	PC-3	2.396E+05	5000	-0.549	59.28	
323	PC-4	1.619E+05	100	-0.387	150.66	
324	PC-4	1.619E+05	1000	-0.482	157.14	
325	PC-4	1.619E+05	5000	-0.549	163.62	
326	PC-4	2.048E+05	100	-0.387	147.42	
327	PC-4	2.048E+05	1000	-0.482	155.52	
328	PC-4	2.048E+05	5000	-0.549	162	
329	PC-4	2.396E+05	100	-0.387	144.18	
330	PC-4	2.396E+05	1000	-0.482	153.9	
<b>33</b> 1	PC-4	2.396E+05	5000	-0.549	160.38	
332	PC-4	1.619E+05	100	-0.387		61.236
333	PC-4	1.619E+05	1000	-0.482		62.694
334	PC-4	1.619E+05	5000	-0.549		64.314
335	PC-4	2.048E+05	100	-0.387		58.32
336	PC-4	2.048E+05	1000	-0.482		59.94
337	PC-4	2.048E+05	5000	-0.549		63.18
338	PC-4	2.396E+05	100	-0.387		56.7
339	PC-4	2.396E+05	1000	-0.482		58.32
340	PC-4	2.396E+05	5000	-0.549		59.94

### 5.D Vary Saltstone Cracking Strain

					Bottom	Тор
	Event	Cracking Strain	Time	Settlement	Crack Area	Crack Area
Index		in/in	years	feet	in^2	in^2
341	PC-3	7.540E-05	100	-0.387	40.56	
342	PC-3	7.540E-05	1000	-0.482	49.92	
343	PC-3	7.540E-05	5000	-0.549	53.04	
344	PC-3	1.206E-04	100	-0.387	38.532	
345	PC-3	1.206E-04	1000	-0.482	49.92	
346	PC-3	1.206E-04	5000	-0.549	56.16	
347	PC-3	1.411E-04	100	-0.387	42.12	
348	PC-3	1.411E-04	1000	-0.482	49.92	
349	PC-3	1.411E-04	5000	-0.549	56.16	
350	PC-4	7.540E-05	100	-0.387	147.42	
351	PC-4	7.540E-05	1000	-0.482	155.52	
352	PC-4	7.540E-05	5000	-0.549	162	
353	PC-4	1.206E-04	100	-0.387	147.42	
354	PC-4	1.206E-04	1000	-0.482	155.52	
355	PC-4	1.206E-04	5000	-0.549	162	
356	PC-4	1.411E-04	100	-0.387	147.096	
357	PC-4	1.411E-04	1000	-0.482	155.358	
358	PC-4	1.411E-04	5000	-0.549	162	
359	PC-4	7.540E-05	100	-0.387		58.32
360	PC-4	7.540E-05	1000	-0.482		59.94
<b>36</b> 1	PC-4	7.540E-05	5000	-0.549		61.236
362	PC-4	1.206E-04	100	-0.387		58.32
363	PC-4	1.206E-04	1000	-0.482		60.58 <b>8</b>
364	PC-4	1.206E-04	5000	-0.549		61.884
365	PC-4	1.411E-04	100	-0.387		58.806
366	PC-4	1.411E-04	1000	-0.482		60.426
367	PC-4	1.411E-04	5000	-0.549		62.046

### 5.E. Vary Soil Bulk Modulus

	Event	Soil Bulk Modulus	Time	Settlement	Bottom Crack Area	Top Crack Area
Index	Lvoin	ksf	vears	feet	In^2	in^2
368	PC3	20	100	-0.387	33	
369	PC3	20	1000	-0.482	45.24	
370	PC3	20	5000	-0.549	54.6	
371	PC3	30	100	-0.387	42.12	
372	PC3	30	1000	-0.482	46.8	
373	PC3	30	5000	-0.549	56.16	
374	PC3	40	100	-0.387	42.12	
375	PC3	40	1000	-0.482	40.56	
376	PC3	40	5000	-0.549	59.94	
377	PC4	20	100	-0.387	115.02	
378	PC4	20	1000	-0.482	124.74	
379	PC4	20	5000	-0.549	131.22	
380 .	PC4	30	100	-0.387	147.42	
381	PC4	30	1000	-0.482	155.52	
382	PC4	30	5000	-0.549	162	
383	PC4	40	100	-0.387	186.3	
384	PC4	40	1000	-0.482	186.3	
385	PC4	40	5000	-0.549	187.92	
386	PC4	20	100	-0.387		21.06
387	PC4	20	1000	-0.482		22.68
388	PC4	20	5000	-0.549		22.68
389	PC4	30	100	-0.387		58.32
390	PC4	30	1000	-0.482		59.94
391	PC4	30	5000	-0.549		63.18
392	PC4	40	100	-0.387		113.4
393	PC4	40	1000	-0.482		100.44
394	PC4	40	5000	-0.549		82.62

6. Differential Displacement at Location 5 6.A. Differential Displacement Magnitude

				Bottom	Тор
		Time	Settlement	Crack Area	Crack Area
index	Magnitude, in	years	feet	in^2	in^2
395	0.75	100	-0.387	60.84	
396	2.75	100	-0.387	157.14	
397	0.75	1000	-0.482	71.76	
398	1.5	1000	-0.482	105.462	
399	2	1000	-0.482	129.438	
400	2.75	1000	-0.482	168.48	
401	0.75	5000	-0.549	81.12	
402	2.75	5000	-0.549	176.58	
403	2.75	100	-0.387		21.06
404	1.5	1000	-0.482		0
405	2	1000	-0.482		8.085
406	2.75	1000	-0.482		19.44
407	2.75	5000	-0.549		17.82

### 6.B. Vary Settlement Extent

Hell Extell				Bottom	Тор
Event		Time	Settlement		Crack Area
	Extent, ft.	years	feet	in^2	in^2
PC-3	62	100	-0.387	60.84	
PC-3	62	1000	-0.482	71.76	
PC-3	62	5000	-0.549	81.12	
PC-3	124	100	-0.387	76.284	
PC-3	124	1000	-0.482	87.36	
PC-3	124	5000	-0.549	96.72	
PC-4	62	100	-0.387	157.14	
PC-4	62	1000	-0.482	168.48	
PC-4	62	5000	-0.549	176.58	
PC-4	124	100	-0.387	234.9	
PC-4	124	1000	-0.482	239.76	
PC-4	124	5000	-0.549	254.34	
PC-4	62	100	-0.387		21.06
PC-4	62	1000	-0.482		19.44
PC-4	62	5000	-0.549		17.82
PC-4	124	100	-0.387		64.8
PC-4	124	1000	-0.482		64.8
PC-4	124	5000	-0.549		59.94
	PC-3 PC-3 PC-3 PC-3 PC-3 PC-3 PC-4 PC-4 PC-4 PC-4 PC-4 PC-4 PC-4 PC-4	Event  Extent, ft.  PC-3  PC-3  PC-3  PC-3  PC-3  PC-3  PC-3  PC-3  PC-3  PC-4   Event         Time           Extent, ft.         years           PC-3         62         100           PC-3         62         1000           PC-3         62         5000           PC-3         124         100           PC-3         124         1000           PC-3         124         5000           PC-4         62         100           PC-4         62         1000           PC-4         62         5000           PC-4         124         100           PC-4         124         1000           PC-4         62         100           PC-4         62         100           PC-4         62         100           PC-4         62         100           PC-4         62         5000           PC-4         62         5000           PC-4         62         5000           PC-4         124         100           PC-4         124         100           PC-4         124         100	Event         Time         Settlement           PC-3         62         100         -0.387           PC-3         62         1000         -0.482           PC-3         62         5000         -0.549           PC-3         124         100         -0.387           PC-3         124         1000         -0.482           PC-3         124         5000         -0.549           PC-4         62         100         -0.387           PC-4         62         1000         -0.482           PC-4         62         5000         -0.549           PC-4         124         100         -0.387           PC-4         124         1000         -0.482           PC-4         124         5000         -0.549           PC-4         62         100         -0.387           PC-4         62         100         -0.387           PC-4         62         100         -0.549           PC-4         62         100         -0.387           PC-4         62         5000         -0.549           PC-4         62         5000         -0.549           PC-4 <td>Event         Time         Settlement         Crack Area           FC-3         62         100         -0.387         60.84           PC-3         62         1000         -0.482         71.76           PC-3         62         5000         -0.549         81.12           PC-3         124         100         -0.387         76.284           PC-3         124         1000         -0.482         87.36           PC-3         124         5000         -0.549         96.72           PC-3         124         5000         -0.549         96.72           PC-4         62         100         -0.387         157.14           PC-4         62         1000         -0.482         168.48           PC-4         62         5000         -0.549         176.58           PC-4         124         100         -0.387         234.9           PC-4         124         100         -0.482         239.76           PC-4         124         5000         -0.549         254.34           PC-4         62         100         -0.387         254.34           PC-4         62         100         -0.387</td>	Event         Time         Settlement         Crack Area           FC-3         62         100         -0.387         60.84           PC-3         62         1000         -0.482         71.76           PC-3         62         5000         -0.549         81.12           PC-3         124         100         -0.387         76.284           PC-3         124         1000         -0.482         87.36           PC-3         124         5000         -0.549         96.72           PC-3         124         5000         -0.549         96.72           PC-4         62         100         -0.387         157.14           PC-4         62         1000         -0.482         168.48           PC-4         62         5000         -0.549         176.58           PC-4         124         100         -0.387         234.9           PC-4         124         100         -0.482         239.76           PC-4         124         5000         -0.549         254.34           PC-4         62         100         -0.387         254.34           PC-4         62         100         -0.387	

### 6.C. Vary Saltstone Modulus

					Bottom	Тор
	Event	Saltstone Modulus	Time	Settlement	Crack Area	Crack Area
Index		ksf	years	feet	in^2	in^2
426	PC-3	1.619E+05	100	-0.387	61.56	
427	PC-3	1.619E+05	1000	-0.482	72.9	
428	PC-3	1.619E+05	5000	-0.549	82.62	
429	PC-3	2.048E+05	100	-0.387	60.84	
430	PC-3	2.048E+05	1000	-0.482	74.52	
431	PC-3	2.048E+05	5000	-0.549	84.24	
432	PC-3	2.396E+05	100	-0.387	60.84	
433	PC-3	2.396E+05	1000	-0.482	74.52	
434	PC-3	2.396E+05	5000	-0.549	84.24	
435	PC-4	1.619E+05	100	-0.387	157.14	
436	PC-4	1.619Ë+05	1000	-0.482	168.48	
437	PC-4	1.619E+05	5000	-0.549	176.58	
438	PC-4	2.048E+05	100	-0.387	157.14	
439	PC-4	2.048E+05	1000	-0.482	168.48	
440	PC-4	2.048E+05	5000	-0.549	176.58	
441	PC-4	2.396E+05	100	-0.387	155.52	
442	PC-4	2.396E+05	1000	-0.482	173.34	
443	PC-4	2.396E+05	5000	-0.549	174.96	
444	PC-4	1.619E+05	100	-0.387		27.378
445	PC-4	1.619E+05	1000	-0.482		25.272
446	PC-4	1.619E+05	5000	-0.549		23.328
447	PC-4	2.048E+05	100	-0.387		27.216
448	PC-4	2.048E+05	1000	-0.482		25.11
449	PC-4	2.048E+05	5000	-0.549		23.49
450	PC-4	2.396E+05	100	-0.387		26.892
451	PC-4	2.396E+05	1000	-0.482		24.624
452	PC-4	2.396E+05	5000	-0.549		23.166

### 6.D Vary Saltstone Cracking Strain

					Bottom	Тор
	Event	Cracking Strain	Time	Settlement	Crack Area	Crack Area
Index		in/in	years	feet	in^2	in^2
453	PC-3	7.540E-05	1000	-0.482	53.04	
454	PC-3	7.540E-05	5000	-0.549	60.84	
455	PC-3	1.206E-04	100	-0.387	60.84	
456	PC-3	1.206E-04	1000	-0.482	71.76	
457	PC-3	1.206E-04	5000	-0.54 <del>9</del>	82.62	
458	PC-3	1.411E-04	100	-0.387	60.84	
459	PC-3	1.411E-04	1000	-0.482	71.76	
460	PC-3	1.411E-04	5000	-0.54 <del>9</del>	84.24	
461	PC-4	7.540E-05	100	-0.387	157.14	
462	PC-4	7.540E-05	1000	-0.482	166.86	
463	PC-4	7.540E-05	5000	-0.54 <del>9</del>	176.58	
464	PC-4	1.206E-04	100	-0.387	157.14	
465	PC-4	1.206E-04	1000	-0.482	168.48	
466	PC-4	1.206E-04	5000	-0.549	176.58	
467	PC-4	1.411E-04	100	-0.387	156.816	
468	PC-4	1.411E-04	1000	-0.482	167.67	
469	PC-4	1.411E-04	5000	-0.549	176.256	
470	PC-4	7.540E-05	100	-0.387		27.054
471	PC-4	7.540E-05	1000	-0.482		24.948
472	PC-4	7.540E-05	5000	-0.549		23.328
473	PC-4	1.206E-04	100	-0.387		27.216
474	PC-4	1.206E-04	1000	-0.482		25.11
475	PC-4	1.206E-04	5000	-0.549		23.49
476	PC-4	1.411E-04	100	-0.387		27.216
477	PC-4	1.411E-04	1000	-0.482		25.11
478	PC-4	1.411E-04	5000	-0.549		23.49

### 6.E. Vary Soil Bulk Modulus

					Bottom	Top
	Event	Soil Bulk Modulus	Time	Settlement	Crack Area	Crack Area
Index		ksf	years	feet	in^2	in^2
479	PC3	20	1000	-0.482	60.84	
480	PC3	20	5000	-0.549	57.72	
481	PC3	30	100	-0.387	56.16	
482	PC3	30	1000	-0.482	67.08	
483	PC3	30	5000	-0.549	74.88	
484	PC3	40	100	-0.387	65.52	
485	PC3	40	1000	-0.482	76.44	
486	PC3	40	5000	-0.549	84.24	
487	PC4	20	100	-0.387	132.6	
488	PC4	20	1000	-0.482	149.04	
489	PC4	20	5000	-0.549	157.14	
490	PC4	30	100	-0.387	157.14	
491	PC4	30	1000	-0.482	168.48	
492	PC4	30	5000	-0.549	176.58	
493	PC4	40	100	-0.387	166.86	
494	PC4	40	1000	-0.482	178.2	
495	PC4	40	5000	-0.549	186.3	
496	PC4	20	100	-0.387		10.5
497	PC4	20	1000	-0.482		10.5
498	PC4	20	5000	-0.549		7.5
499	PC4	30	100	-0.387		21.06
500	PC4	30	1000	-0.482		19.44
501	PC4	30	5000	-0.549		17.82
502	PC4	40	100	-0.387		27.54
503	PC4	40	1000	-0.482		25.92
504	PC4	40	5000	-0.549		25.92

## 7. Differential Displacement at Location 6 7.A. Differential Displacement Magnitude

Index	Magnitude, in	Time vears	Settlement feet	Bottom Crack Area in^2	Top Crack Area in^2
505	1.5	1000	-0.482	0	
506	1.75	1000	-0.482	102.06	
507	2	1000	-0.482	110.97	
508	2.5	1000	-0.482	152.28	
509	2.75	1000	-0.482	176.58	
510	2.75	100	-0.387		50.22
511	2.5	1000	-0.482		26.73
512	2.75	1000	-0.482		43.74
513	2.75	5000	-0.549		37.26

### 7.B. Vary Settlement Extent

D. Vary Octaio	ment Extent				Bottom	Тор
	Event		Time		Crack Area	Crack Area
Index		Extent, ft.	years	feet	in^2	in^2
514	PC-3	62	5000	-0.549	48.36	
515	PC-3	124	5000	-0.549	46.8	
516	PC-4	62	100	-0.387	168.48	
517	PC-4	62	1000	-0.482	176.58	
518	PC-4	62	5000	-0.549	183.06	
519	PC-4	124	100	-0.387	205.74	
520	PC-4	124	1000	-0.482	215.46	
521	PC-4	124	5000	-0.549	221.94	
522	PC-4	62	100	-0.387		50.22
523	PC-4	62	1000	-0.482		43.74
524	PC-4	62	5000	-0.549		37.26
525	PC-4	124	100	-0.387		79.38
526	PC-4	124	1000	-0.482		74.52
527	PC-4	124	5000	-0.549		69.66

7.C. Vary Saltstone Modulus

					Bottom	Тор
	Event	Saltstone Modulus	Time	Settlement	Crack Area	Crack Area
Index		ksf	years	feet	in^2	in^2
528	PC-3	1.619E+05	1000	-0.482	36.192	
529	PC-3	1.619E+05	5000	-0.549	46.176	
530	PC-3	2.048E+05	5000	-0.549	48.36	
531	PC-3	2.396E+05	100	-0.387	3.51	
532	PC-3	2.396E+05	1000	-0.482	40.56	
533	PC-3	2.396E+05	5000	-0.549	49.92	
534	PC-4	1.619E+05	100	-0.387	174.96	
535	PC-4	1.619E+05	1000	-0.482	183.06	
536	PC-4	1.619E+05	5000	-0.549	189.54	
537	PC-4	2.048E+05	100	-0.387	168.48	
538	PC-4	2.048E+05	1000	-0.482	176.58	
539	PC-4	2.048E+05	5000	-0.549	183.06	
540	PC-4	2.396E+05	100	-0.387	162	
541	PC-4	2.396E+05	1000	-0.482	32.76	
542	PC-4	2.396E+05	5000	-0.549	42.12	
543	PC-4	1.619E+05	100	-0.387		53.946
544	PC-4	1.619E+05	1000	-0.482		48.438
545	PC-4	1.619E+05	5000	-0.549		41.634
546	PC-4	2.048E+05	100	-0.387		49.896
547	PC-4	2.048E+05	1000	-0.482		42.768
548	PC-4	2.048E+05	5000	-0.549		37.098
549	PC-4	2.396E+05	100	-0.387		46. <del>6</del> 56

### 7.D Vary Saltstone Cracking Strain

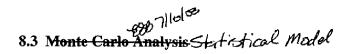
rany canon	one oracking on				Bottom	Тор
	Event	Cracking Strain	Time	Settlement	Crack Area	Crack Area
Index		in/in	years	feet	in^2	in^2
550	PC-3	7.540E-05	100	-0.387	17.28	
551	PC-3	7.540E-05	1000	-0.482	27	
552	PC-3	7.540E-05	5000	-0.549	33	
553	PC-3	1.206E-04	5000	-0.549	48.36	
554	PC-4	7.540E-05	100	-0.387	168.48	
555	PC-4	7.540E-05	1000	-0.482	176.58	
556	PC-4	7.540E-05	5000	-0.549	183.06	
557	PC-4	1.206E-04	100	-0.387	168.48	
558	PC-4	1.206E-04	1000	-0.482	176.58	
559	PC-4	1.206E-04	5000	-0.549	183.06	
560	PC-4	1.411E-04	100	-0.387	168.156	
561	PC-4	1.411E-04	1000	-0.482	176.256	
562	PC-4	1.411E-04	5000	-0.549	175.968	
563	PC-4	7.540E-05	100	-0.387		49.67892
564	PC-4	7.540E-05	1000	-0.482		42.93
565	PC-4	7.540E-05	5000	-0.549		37.26
566	PC-4	1.206E-04	100	-0.387		49.896
567	PC-4	1.206E-04	1000	-0.482		42.768
568	PC-4	1.206E-04	5000	-0.549		37.098
569	PC-4	1.411E-04	100	-0.387		49.896
570	PC-4	1.411E-04	1000	-0.482		42.606
571	PC-4	1.411E-04	5000	-0.549		37.26
3/1	10-4	1.7116-07	2000	0.0-0		UEU

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7.E. Vary Soil Bulk Modulus

					Bottom	Тор
	Event	Soil Bulk Modulus	Time	Settlement	Crack Area	Crack Area
Index		ksf	years	feet	ln^2	in^2
572	PC3	30	5000	-0.549	48.36	
573	PC3	40	1000	-0.482	30	
574	PC3	40	5000	-0.549	51.48	
575	PC4	20	5000	-0.549	119.88	
576	PC4	30	100	-0.387	168.48	
577	PC4	30	1000	-0.482	176.58	
578	PC4	30	5000	-0.549	183.06	
579	PC4	40	100	-0.387	217.08	
580	PC4	40	1000	-0.482	225.18	
581	PC4	40	5000	-0.549	231.66	
582	PC4	30	100	-0.387		50.22
583	PC4	40	100	-0.387		82.62
584	PC4	30	1000	-0.482		43.74
585	PC4	40	1000	-0.482		76.14
586	PC4	30	5000	-0.549		37.26
587	PC4	40	5000	-0.549		69.66

Calculation No.	Sheet No.	Rev.
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To construct a model for Monte Carlo analysis, it is necessary to determine relationships between the variable parameters and resulting cracking of the vault. The base parameters used in the analysis are the following:

- 1. Static settlement rate
- 2. Grout modulus
- 3. Grout cracking strain
- 4. Soil bulk modulus

The structural analysis varied one parameter at a time while holding the others at their mean values. The variation of crack areas with the change in parameters was calculated using linear regression on the data from the finite element model runs.

These parameters remain fixed for each iteration as the model is stepped through time. During the time sequence, the occurrence of an earthquake is determined by a random number generator. The earthquake causes differential settlement that itself has variable parameters. These are as follows:

- 1. Location of settlement (one of seven locations, equal probability)
- 2. Magnitude (depends on Earthquake magnitude)
- 3. Extent (normal distribution)

The Monte Carlo analysis is run in the @RISK program, an EXCEL based overlay. @RISK is used for the base parameters and to control iterations, while an EXCEL macro is used to set the earthquake parameters and step through time.

There are two spreadsheets used for this analysis. The spreadsheet "Parameter Results.xls" is used to evaluate the data and set up relationships for the crack area to each parameter, and "Crack Workbook.xls" is used to run the Monte Carlo analysis.

The probability distributions and comparison of the model to the structural analysis data are shown in the following sections. The effects of varying the parameters over wide ranges are also shown. The following table provides an index to the model verification.

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Section	Description	Sheet
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### Probability Distributions for Statistical Analysis Parameters

#### 8.3.1. Static Settlement Rate

### 1A. Check Data Fit

#### Time, years

Settlement	1	5	24	100	1000	5000	10000
Low	-0.12077	-0.24512	-0.26762	-0.3008	-0.34893	-0.38633	-0.40428
Mean	-0.13446	-0.28599	-0.32778	-0.3893	-0.47839	-0.54745	-0.58069
High	-0 15589	-0.33059	-0.37795	-0 44766	-0.54862	-0 62687	-0.66452

Time := 
$$(1 \ 5 \ 24 \ 100 \ 1000 \ 5000 \ 10000)$$

(Settlement in feet)

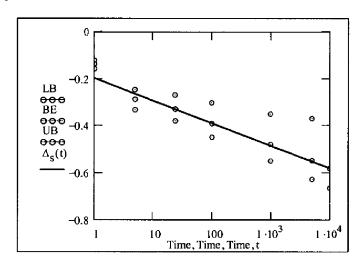
$$LB := (-.12077 -.24512 -.26762 -.3008 -.34893 -.36833 -.40428)$$

BE := 
$$(-.13446 -.28599 -.32778 -.3893 -.47839 -.54745 -.58069)$$

$$UB := (-.15589 -.33059 -.37795 -.44766 -.54862 -.62687 -.66452)$$

Mean Settlement is a function of log (time)

$$\Delta_{s}(t) := -.09598 \cdot \log(t) - .196374$$

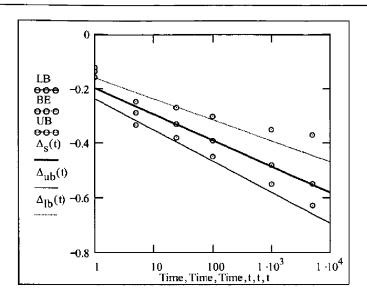


For a random variable X with a standard normal distribution  $\mu$ =1.0607 and  $\sigma$ =0.53 truncated at 0. Relationship of the range of data for each time is as follows:

$$\mu := 1.0607$$
  $\sigma := 0.53$ 

$$ratio(X) := \frac{0.368X + 0.609}{0.368 \cdot \mu + 0.609}$$

$$\Delta_{ub}(t) := \left[ \mathsf{ratio} \left( \mu + \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) - .196374 \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) \right) \right] \\ \Delta_{|b}(t) := \left[ \mathsf{ratio} \left( \mu - \sigma \right) \cdot \left( -.09598 \cdot \log(t) \right) \right]$$



Data fit is acceptable and slightly conservative due to curve fit.

### 1B. Check validity of probability distribution.

The ratio is limited to 0.1 since settlement can't be positive and always has at least a small negative value. The effect of this is to truncate the distribution.

$$X_0 := \frac{0.1 - 0.609}{0.368}$$

$$X_0 = -1.383$$

Calculate the area under the probability function.

$$f_d(x) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot e^{\displaystyle \frac{-1}{2} \cdot \left( \frac{x - \mu}{\sigma} \right)^2}$$

$$Y := \int_{X_0}^{\infty} f_{\mathbf{d}}(x) \, \mathrm{d}x$$

Truncated distribution is valid.

#### 1c. Check the results for the range of probabilities

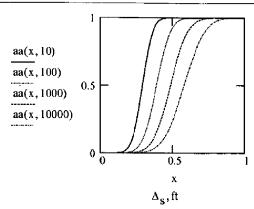
$$\Delta_{s}(t, X) := \max(\text{ratio}(X), 0.1) \cdot (-.09598 \cdot \log(t) - .196374)$$

$$r := ratio(\mu + \sigma) - ratio(\mu)$$

$$r = 0.195$$

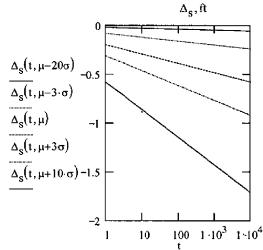
$$\mu$$
s(t) := -.09598·log(t) - .196374

$$aa(x,t) := pnorm(x,-\mu s(t),-r\mu s(t)) \qquad bb(x,t) := dnorm(x,-\mu s(t),-r\mu s(t))$$



bb(x, 10) bb(x, 100) bb(x, 1000) bb(x, 10000) 0 0.5

Note: settlement is expressed as positive for the Mathcad probability functions.



Range of probabilities is adequately covered.

Time,years

x

-1.5

2

3

#### 8.3.2. Grout Modulus

### 2A Check Grout Modulus Distribution

Random Variable, X

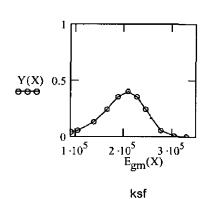
Saltstone compressive strength is used as the basis for varying the modulus and cracking strain. ACI-318 bases the Young's modulus for concrete on the square root of the compressive strength.

Distribution is truncated at compressive strength = 100 psi minimum.

$$\begin{split} X_0 &\coloneqq \frac{100 - \mu_{cs}}{\sigma_{cs}} & X_0 = -2.157 \\ \text{Mean Value} & \mu_E \coloneqq E_{gm}(0) & \mu_E = 2.086 \times 10^5 \\ \sigma_{p1} &\coloneqq E_{gm}(1) & \sigma_{p1} = 2.447 \times 10^5 \\ \sigma_{n1} &\coloneqq E_{gm}(-1) & \sigma_{n1} = 1.649 \times 10^5 \end{split}$$

$$Y(X) := dnorm(X, 0, 1)$$

$E_{gm}(X) =$	9.106-104		0.039
	1.042-105		0.054
	1.379·10 ⁵		0.13
	1.649·10 ⁵		0.242
	1.88·10 ⁵		0.352
			0.399
	2.274·10 ⁵		0.352
	2.447·10 ⁵		0.242
	2.76·10 ⁵		0.054
	3.042·10 ⁵		4.432·10 ⁻³
	3.299.105		1.338·10 ⁻⁴



### 2B. Check Probability Sum

$$\begin{array}{ll} \mu := 0 & \text{Distribution Appears OK} \\ \sigma := 1 & f_d(x) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot e^{\displaystyle \frac{-1}{2} \cdot \left( \frac{x - \mu}{\sigma} \right)^2} & Y := \int_{X_0}^{\infty} f_d(x) \, dx & Y = 0.984 & Y \cdot r = 1.003 \\ & \text{Close to 1 O.K.} \end{array}$$

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### 2C. Range of Parameter Test

$$X := \begin{pmatrix} -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{pmatrix}$$

$$E_{gm}(X) = \begin{bmatrix} 1.953i \cdot 10^{5} \\ 1.477i \cdot 10^{5} \\ 7.401i \cdot 10^{4} \\ 1.042 \cdot 10^{5} \\ 1.649 \cdot 10^{5} \\ 2.086 \cdot 10^{5} \\ 2.447 \cdot 10^{5} \\ 2.76 \cdot 10^{5} \\ 3.042 \cdot 10^{5} \\ 3.299 \cdot 10^{5} \\ 3.538 \cdot 10^{5} \end{bmatrix}$$

-3 to -5 not used.

### 8.3.3. Grout Cracking Strain

### 3A Check Grout Cracking Strain Distribution

Random Variable, X (assumed to be independent of modulus; correlation added later.

Saltstone Compressive Strength

$$\mu_{cs} := 524.4$$
  $\sigma_{cs} := 196.8$ 

$$\varepsilon_{\text{med}} := 1.206 \cdot 10^{-4}$$

-2.157 -2

-1.5

-1

$$\mathsf{ratio}(X) \coloneqq \left(1.0187 \cdot \sqrt{\frac{\left[ \ \mu_{cs} + \sigma_{cs} \cdot (X) \ \right]}{\mu_{cs}}} \right) \qquad \quad \epsilon_{gm}(X) \coloneqq \epsilon_{med} \cdot \mathsf{ratio}(X)$$

$$\varepsilon_{gm}(X) := \varepsilon_{med} \cdot ratio(X)$$

Distribution is truncated at compressive strength = 100 psi minimum.

$$X_0 := \frac{100 - \mu_{cs}}{\sigma_{cs}}$$
  $X_0 = -2.157$ 

$$X_0 = -2.157$$

Mean Value

$$\mu_{\dot{E}} := \varepsilon_{gm}(0)$$

$$\mu_{\rm E} = 1.229 \times 10^{-4}$$

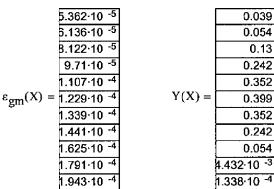
$$\sigma_{p1} \coloneqq \epsilon_{gm}(1)$$

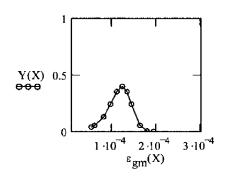
$$\sigma_{\rm p1} = 1.441 \times 10^{-4}$$

$$\sigma_{n1} := \epsilon_{gm}(-1)$$

$$\sigma_{\rm n1} = 9.71 \times 10^{-5}$$

$$Y(X) := dnorm(X, 0, 1)$$





Distribution Appears OK

#### 3B. Check Probability Sum

$$\mu := 0$$

$$\sigma := 1$$

$$f_d(x) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot e^{\frac{-1}{2} \cdot \left(\frac{x - \mu}{\sigma}\right)^2} \qquad \qquad Y := \int_{X_0}^{\infty} f_d(x) \, dx$$

$$Y := \int_{X_0}^{\infty} f_{\mathbf{d}}(x) \, \mathrm{d}x$$

0.13

$$Y = 0.984$$

$$Y \cdot r = 1.003$$

Close to 1 O.K.

### 3C. Range of Parameter Test

$$X := \begin{pmatrix} -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{pmatrix}$$

$$\epsilon_{gm}(X) = \begin{bmatrix} 1.15i \cdot 10^{-4} \\ 8.697i \cdot 10^{-5} \\ 4.358i \cdot 10^{-5} \\ 6.136 \cdot 10^{-5} \\ 9.71 \cdot 10^{-5} \\ 1.229 \cdot 10^{-4} \\ 1.441 \cdot 10^{-4} \\ 1.625 \cdot 10^{-4} \\ 1.943 \cdot 10^{-4} \\ 2.084 \cdot 10^{-4} \end{bmatrix}$$

### 3D. Correlation of Cracking Strain and Modulus

It is very unlikely that the saltstone would have a high Young's modulus and low tensile strength since they are be related to the compressive strength for concrete per ACI 318.

The EXCEL spreadsheet allows correlation of variables where -1.0 represents a 100% negative correlation, and 1.0 corresponds to a 100% positive correlation. In this instance, it is judged that there is a better than 50% but le than 100% correlation, so 0.75 is used to correlate modulus and tensile cracking strain.

-1.6667 -1.5

--1

-.75 -.5

0

1 2

3

### 8.3.4. Soil Bulk Modulus

### 4A Check Soil Bulk Modulus Strain Distribution

Random Variable, X

$$\mu_{S} := 30 \qquad \sigma_{S} := 15 \qquad r := 1.0504 \qquad k := r \cdot 30$$

$$ratio(X) := \frac{\left[\mu_{S} + \sigma_{S} \cdot (X)\right]}{\mu_{S}} \qquad K_{S}(X) := k \cdot ratio(X)$$

Distribution is truncated at soil bulk modulus = 5kcf minimum.

Note that the FE model is done with k = 20, 30, and 40 kcf. A COV of 0.5 is used in the statistical analysis, while the 20, 30, 40 values are used in the FE analysis to establish the relationships with crack area.

$$X_0 := \frac{5 - \mu_s}{\sigma_s}$$
  $X_0 = -1.667$ 

 $\text{Mean Value} \qquad \qquad \mu_E \coloneqq K_g(0)$ 

$$\mu_{\rm E} = 31.512$$

$$\sigma_{\mathfrak{p}\mathfrak{l}} \coloneqq K_{\mathfrak{s}}(1)$$

$$\sigma_{\rm p1} = 47.268$$

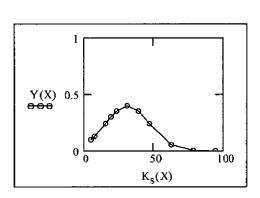
$$\sigma_{n1}:=K_s(-1)$$

$$\sigma_{nl} = 15.756$$

$$Y(X) := dnorm(X, 0, 1)$$

	5.251
	7.878
	15.756
	19.695
	23.634
$K_{s}(X) =$	31.512
	39.39
	47.268
	63.024
	78.78
	94.536

	0.099
	0.13
	0.242
	0.301
	0.352
Y(X) =	0.399
	0.352
	0.242
	0.054
	4.432·10 ⁻³
	1.338-10 -4



Distribution Appears OK

### 4B. Check Probability Sum

$$\mu := 0$$

$$\sigma := 1$$

$$f_{\mathbf{d}}(\mathbf{x}) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot e^{\frac{-1}{2} \cdot \left(\frac{\mathbf{x} - \mu}{\sigma}\right)^{2}}$$

$$Y := \left(\int_{X_{0}}^{\infty} f_{\mathbf{d}}(\mathbf{x}) d\mathbf{x}\right) \cdot \mathbf{r} \qquad Y = 1$$

### 4C. Range for Data Check (Truncate at 5kcf).

$$X := \begin{pmatrix} -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{pmatrix}$$

$$K_{S}(X) = \begin{bmatrix} -47.268 \\ -31.512 \\ -15.756 \\ \hline 0 \\ 15.756 \\ \hline 31.512 \\ 47.268 \\ \hline 63.024 \\ \hline 78.78 \\ \hline 94.536 \\ \hline 110.292 \\ \end{bmatrix}$$

#### 8.3.5. Magnitude of Differential Settlement

PC-3 is 0.75 inches with annual probability of 1/2500 or 4E-3; PC-4 is 2.75 inches with annual probability of 1E-4. 10 year probabilities are 3.993E-3 and 1E-3, respectively.

Probability Calculation (DOE-1020, Appendix A)

$$EP(n,p) := 1 - (1-p)^{n}$$

n is time period, years

EP is exceedance probability

p is annual probability of exceedance

n := 10

$$p := \frac{1}{2500}$$

$$p := \frac{1}{2500}$$
  $EP(n,p) = 3.993 \times 10^{-3}$ 

$$p := \frac{1}{10000}$$
  $EP(n,p) = 9.996 \times 10^{-4}$ 

**Excel Formulation** 

minEP Ap1

6.71E-03

6.71E-03 0.003993

Bp1

-0.3006 -2.173213448 0.75 2.75

0

1.00E-03

Ap2

-0.8

0.0001

Bp2

-0.8

=IF(D29>minEP,0,IF(D29>Q19,(LOG(\$D\$29)-Bp1_)/Ap1_,(LOG(\$D\$29)-Bp2_)/Ap2_))

D29 is random variable representing 10 year probability

$$EP_{min} := 6.71 \cdot 10^{-3}$$
  $a1 := -.3006$   $a2 := -0.8$ 

$$a2 := -0.8$$

$$EP_{pc4} := 10^{-3}$$
 b1 := -2.1732 b2 := -0.8

$$b1 := -2.1732$$

$$b2 := -0.8$$

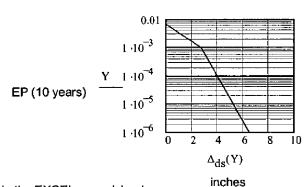
$$\Delta_{ds}(Y) := \mathrm{if} \Bigg[ \Big( Y \geq EP_{min} \Big), 0, \mathrm{if} \Bigg( Y \geq EP_{pe4}, \frac{\log(Y) - b1}{a1}, \frac{\log(Y) - b2}{a2} \Bigg) \Bigg]$$

$$\Delta_{ds}(EP_{min}) = 0$$

$$\Delta_{ds}(EP_{min}) = 0 \qquad \qquad \Delta_{ds}(10^{-3}) = 2.75$$

$$\Delta_{\rm ds}(.003993)=0.75$$

$$Y := 10^{-6}, 10^{-5}, 10^{-2}$$



Curve matches the functions in the EXCEL spreadsheet.

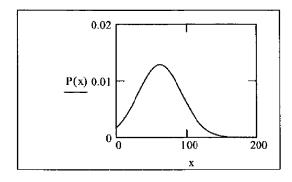
### 8.3.6. Extent of Settlement

### 6A Check Distribution

Truncate at 0 ft.

$$P(x) := dnorm(x, 62, 31)$$

$$r := 1.0235$$



### Distribution Appears OK

### 6B. Check Probability Sum

$$\begin{array}{ll} \mu := 62 \\ \sigma := 31 \end{array} \qquad f_{\mbox{$d$}}(x) := \frac{1}{\sigma \cdot \sqrt{2 \cdot \pi}} \cdot e^{\mbox{$\frac{-1}{2}$} \cdot \left( \frac{x - \mu}{\sigma} \right)^2} \end{array} \qquad Y := \left( \int_0^\infty f_{\mbox{$d$}}(x) \, dx \right) \cdot r$$

$$Y := \left( \int_0^\infty f_{\mathbf{d}}(x) \, \mathrm{d}x \right) \cdot \mathbf{r} \qquad Y = 1$$

Extent is in feet.

### 6C. Range for Data Check

$$X := \begin{pmatrix} -5 \\ -4 \\ -3 \\ -2 \\ -1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{pmatrix}$$

$$V(X) := \mu + \sigma \cdot X \qquad V($$

-93

#### 8.3.7 Parameters Affecting Static Settlement

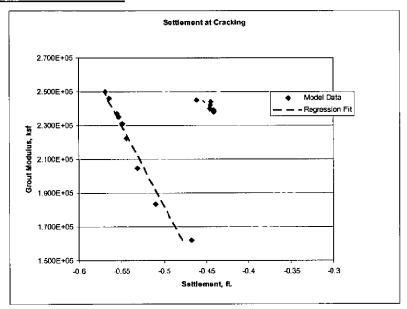
#### First calculate whether crack occurs.

The parameters that affect the occurrence of a crack are:

- · The static settlement rate
- The saltstone modulus
- The saltstone cracking strain.

Note that the soil bulk modulus is directly related to the static settlement rate in that softer soil would have a higher settlement rate than stiffer soil. The static settlement occurs over a long period and over that period, the vault would tend to conform to the shape of the static settlement curve. The soil bulk modulus will therefore not be considered as a parameter to be varied for the static case but is accounted for by the static settlement rate..

### Saltstone Modulus Effect



There is an anomaly in the data caused by the problem geometry. For a narrow range of saltstone modulus values, the vault tends to crack at a lower static settlement. This effect is demonstrated by numerous runs of the FE model. From linear regression analysis, the settlement at crack initiation is expressed as follows:

Eg - Grout Modulus, ksf

Δs -Static Settlement, ft

 $\Delta_{\text{co}}$  - Settlement at Crack Initiation, ft.

$$\Delta_{col}(E_g) := -1.05 \cdot 10^{-6} \cdot E_g - .3087$$

For Eg between 238000 and 245000:

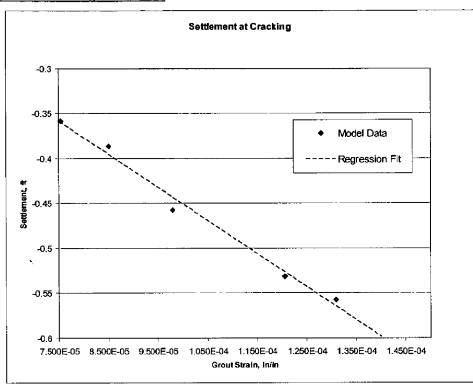
$$\Delta_{\text{co2}}(E_{\text{g}}) := -1.89 \cdot 10^{-6} \cdot E_{\text{g}} - .0103$$

Examples

$$\Delta_{\rm col}(204800) \approx -0.524$$

$$\Delta_{\text{co2}}(240000) = -0.464$$

### Saltstone Cracking Strain Effect



The saltstone cracking strain also determines whether the vault will crack under static settlement. a linear regression of the FE model results gives the following relationship.

 $\epsilon_{\text{cr}}\,\,$  - Saltstone Cracking Strain

$$\Delta_{\text{co}}(\varepsilon_{\text{cr}}) := -3698.5 \cdot \varepsilon_{\text{cr}} - 0.08113 \qquad \qquad \varepsilon_{\text{crm}} := 1.206 \cdot 10^{-4}$$

$$ratio\!\left(\epsilon_{cr}\right) := \frac{\Delta_{co}\!\left(\epsilon_{cr}\right)}{\Delta_{co}\!\left(\epsilon_{crm}\right)}$$

Examples

$$\varepsilon_{\rm cr} \coloneqq 1.05 \cdot 10^{-4}$$

$$\Delta_{\rm co}(\epsilon_{\rm cr}) = -0.469$$

$$\begin{split} \epsilon_{cr} &:= 1.05 \cdot 10^{-4} & \Delta_{co} \Big( \epsilon_{cr} \Big) = -0.469 & \text{ratio} \Big( \epsilon_{cr} \Big) = 0.891 \\ \epsilon_{cr} &:= 1.3 \cdot 10^{-4} & \Delta_{co} \Big( \epsilon_{cr} \Big) = -0.562 & \text{ratio} \Big( \epsilon_{cr} \Big) = 1.066 \end{split}$$

$$\varepsilon_{cm} := 1.3 \cdot 10^{-4}$$

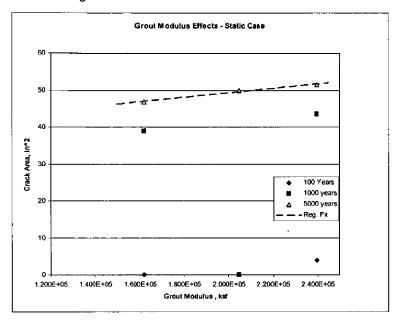
$$\Delta_{no}(\epsilon_{on}) = -0.562$$

$$ratio(\epsilon_{cr}) = 1.066$$

The value for  $\Delta_{co}$  calculated from the saltstone modulus is modified by this ratio.

#### **Crack Area for Static Settlement Case**

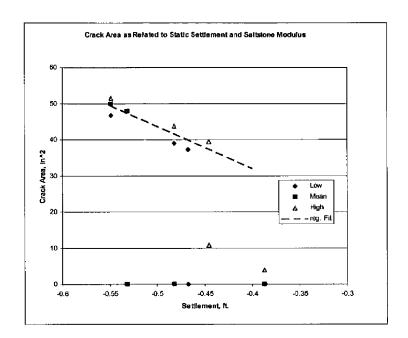
Once it has been determined that a crack occurs, the data from the 5000 year settlement case is used to determine crack area, and is modified by a factor dependent on the settlement at the specific time being considered.



Linear regression is used to relate the crack area to the grout modulus for the 5000 year data.

CA1 - Crack Area related to saltstone modulus

$$CA1(E_g) := 6.071 \cdot 10^{-5} \cdot E_g + 37.13$$



The crack area is related to the settlement also by linear regression:

## CA2 - Crack Area related to settlement.

Since the first relationship was based on 5000 year settlement, the CA2 value is calculated as a modifier of the 5000 year value.

Slope := 
$$-117.198$$

$$\Delta_{5000} := -0.549$$

$$CA2(\Delta_{st}) := Slope \cdot (\Delta_{st} - \Delta_{5000})$$

## Examples

$$E_{g} := 204800$$

$$\Delta_{ct} := -0.5$$

$$\Delta_{st} := -0.5$$
 CAI(E_g) = 49.563

$$CA2(\Delta_{st}) = -5.743$$

$$E_g := 245000$$

$$\Delta_{st} := -0.6$$

$$CAl(E_g) = 52.004$$

$$CA2(\Delta_{st}) = 5.977$$

Overall Crack Area

$$CA := CA1(E_g) + CA2(\Delta_{st})$$

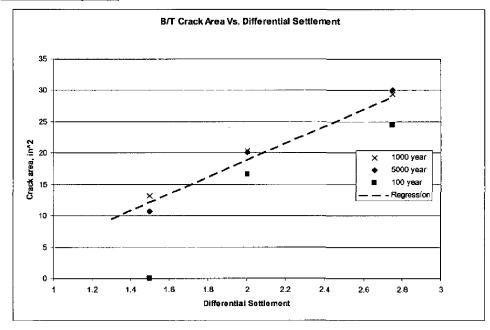
#### 8.3.8 Differential Settlement at Location 1

The parameters affecting the formation of cracks due to differential settlement are:

- · magnitude of settlement
- · time of settlement with respect to the static settlement condition
- extent of settlement
- saltstone modulus
- · saltstone cracking strain
- soil bulk modulus

Note: B/T cracks are cracks open at the bottom. T/B cracks are cracks open at the top.

## Settlement Magnitude



The settlement is related to the magnitude by linear regression of the 1000 year data.

 $\text{CA}_{\text{ds}}\,$  - Crack Area due to differential settlement magnitude, in  2 

 $\Delta_d$  - Differential settlement, in.

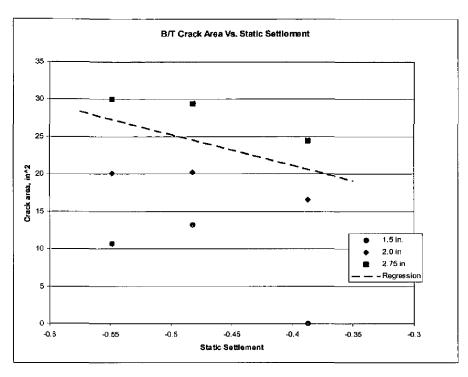
$$CA_{ds}(\Delta_d) := 13.44 \cdot \Delta_d - 8.073$$

Examples

$$CA_{ds}(2) = 18.807$$
  $CA_{ds}(1.25) = 8.727$ 

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

# Effect of Static Settlement (time)



Data from the 2 in and 2.75 in differential settlements were used to find the slope change of the crack area as a function of static settlement. The relationship is as follows:

$$\Delta_{1000} := -0.4823$$

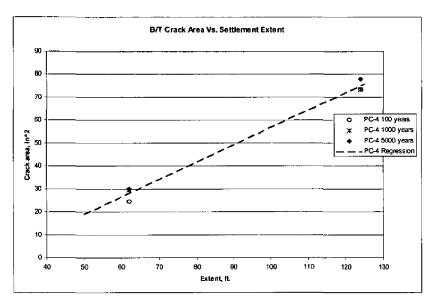
$$\mathsf{CA}_\mathsf{SS}\!\!\left(\Delta_\mathsf{S}\right) \coloneqq -41.2249\!\cdot\!\left(\Delta_\mathsf{S}\!-\!\Delta_{1000}\right)$$

Examples

$$CA_{SS}(-.4) = -3.393$$
  $CA_{SS}(-.55) = 2.791$ 

$$CA_{cc}(-.55) = 2.791$$

# Effect of Extent of Settlement



The effect of settlement extent is assumed to be linear and is extrapolated for larger settlement areas. The expression for the relationship is:

Ex is settlement extent, ft.

Exm := 62

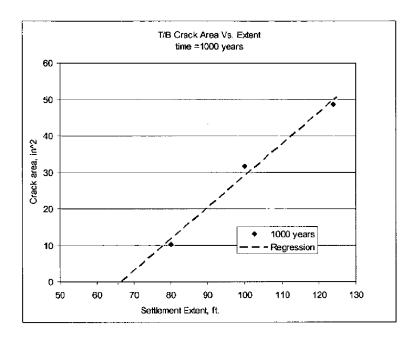
Exm is mean settlement extent

 $CA_{ext}(Ex) := 0.7568 \cdot (Ex - Exm)$ 

Examples

 $CA_{ext}(40) = -16.65$   $CA_{ext}(140) = 59.03$ 

There are also cracks open at the top for larger values of the extent parameter and for differential settlements greater than  $2\ \text{in.}$ .



The relationship is expressed as follows:

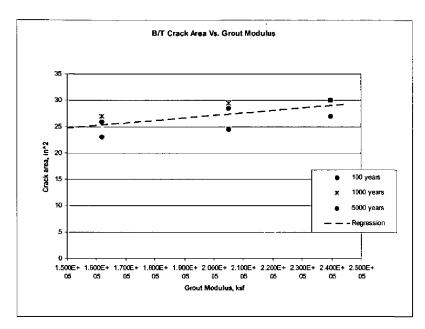
$$CA_{tex}(Ex) := 0.867 \cdot (Ex) - 57.73$$
 for  $\Delta_d \ge 2in$ .

Examples

$$CA_{tex}(75) = 7.295$$

$$CA_{tex}(125) = 50.645$$

## Effect of Saltstone Modulus



The expression for the Saltstone modulus effect is derived similarly:

$$E_{gm} := 2.048 {\cdot} 10^5$$

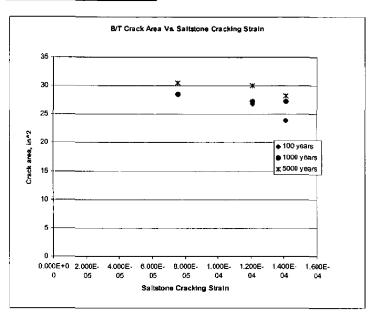
$$CA_{gm}(E_g) := 4.75 \cdot 10^{-5} \cdot \left(E_g - E_{gm}\right)$$

Examples

$$CA_{gm}(1.9 \cdot 10^5) = -0.703$$

$$CA_{gm}(1.9 \cdot 10^5) = -0.703$$
  $CA_{gm}(2.5 \cdot 10^5) = 2.147$ 

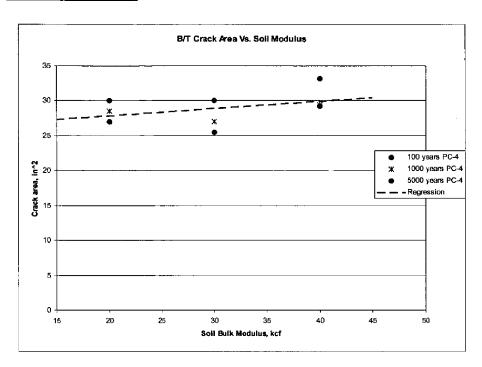
# **Grout Cracking Strain Effect**



No significant effect of saltstone cracking strain on crack area was noted.

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#### Soil Bulk Modulus Effect



The expression for the soil bulk modulus effect is derived similarly:

$$K_{sm} := 30$$

$$CA_{sm}(K_s) := 0.1047 \cdot (K_s - K_{sm})$$

Examples

$$CA_{sm}(25) = -0.523$$

$$CA_{sm}(25) = -0.523$$
  $CA_{sm}(45) = 1.571$ 

This value is added to the crack area.

# Total Crack Area

$$CA_b := CA_{ds}(\Delta_d) + CA_{ss}(\Delta_s) + CA_{ext}(Ex) + CA_{gm}(E_g) + CA_{sm}(K_s)$$

$$CAt := CA_{tex}(Ex)$$

## 8.3.9 Differential Settlement at Location 2

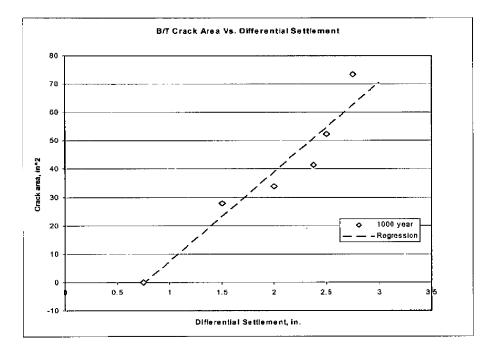
The parameters affecting the formation of cracks due to differential settlement are:

- magnitude of settlement
- time of settlement with respect to the static settlement condition
- · extent of settlement
- saltstone modulus
- saltstone cracking strain
- · soil bulk modulus

Note: B/T cracks are cracks open at the bottom. T/B cracks are cracks open at the top.

# Settlement Magnitude

#### **Bottom Cracks**



The settlement is related to the magnitude by linear regression of the 1000 year data.

CA_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

$$CA_{ds}(\Delta_d) := 31.645 \cdot \Delta_d - 24.512$$

Examples

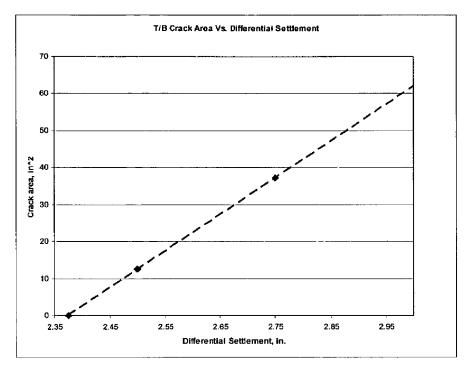
$$CA_{ds}(2) = 38.778$$

$$CA_{ds}(1.25) = 15.044$$

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

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Top Cracks



The settlement is related to the magnitude by linear regression of the 1000 year data.

CAt_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

$$CA_{tds}(\Delta_d) := 99.24 \cdot \Delta_d - 235.605$$

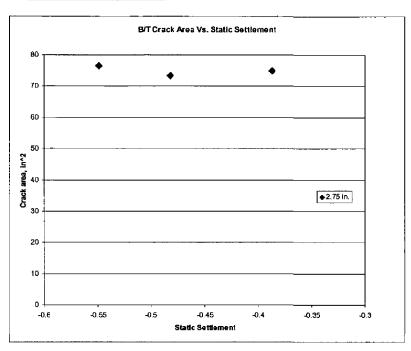
Examples

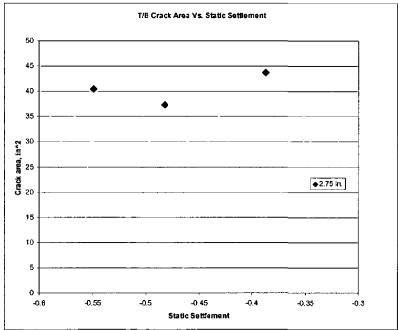
$$CA_{tde}(2.4) = 2.571$$

$$CA_{tds}(2.4) = 2.571$$
  $CA_{tds}(2.8) = 42.267$ 

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

# Effect of Static Settlement (time)

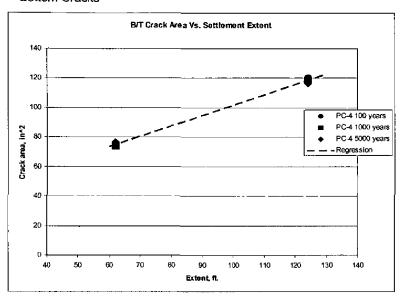




There were no trends noted for static settlement condition at the time of occurrence of the earthquake.

# Effect of Extent of Settlement

**Bottom Cracks** 



The effect of settlement extent is assumed to be linear and is extrapolated for larger settlement areas. The expression for the relationship is:

Ex is settlement extent, ft.

Exm := 62

Exm is mean settlement extent

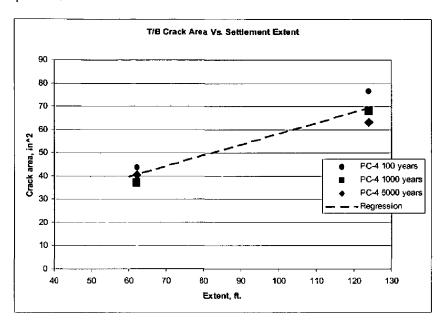
 $CA_{ext}(Ex) := .7014 \cdot (Ex - Exm)$ 

Examples

 $CA_{ext}(40) = -15.431$ 

 $CA_{ext}(140) = 54.709$ 

Top Cracks



The relationship is expressed as follows:

$$CA_{tex}(Ex) := 0.464 \cdot (Ex - Exm)$$

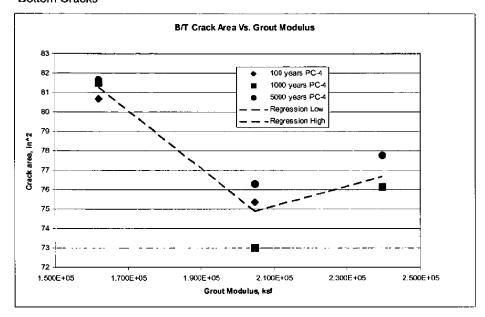
Examples

$$CA_{tex}(55) = -3.248$$

$$CA_{tex}(125) = 29.232$$

## Effect of Saltstone Modulus

## **Bottom Cracks**



The data is fit with two lines.

$$E_{gm} := 2.048 \cdot 10^5$$

For 
$$E_g \leftarrow E_{gm}$$

$$\text{For E}_g \mathrel{<=} \mathsf{E}_{gm} \qquad \quad \mathsf{CA}_{1gm}\!\!\left(\mathsf{E}_g\right) := -1.49 \cdot 10^{-4} \cdot \! \left(\mathsf{E}_g - \mathsf{E}_{gm}\right)$$

For  $E_g > E_{gm}$ 

$$CA_{2gm}(E_g) := 5.17 \cdot 10^{-5} \cdot (E_g - E_{gm})$$

Examples

$$CA_{1gm}(1.9 \cdot 10^5) = 2.205$$

$$CA_{1gm}(1.9 \cdot 10^5) = 2.205$$
  $CA_{2gm}(2.5 \cdot 10^5) = 2.337$ 

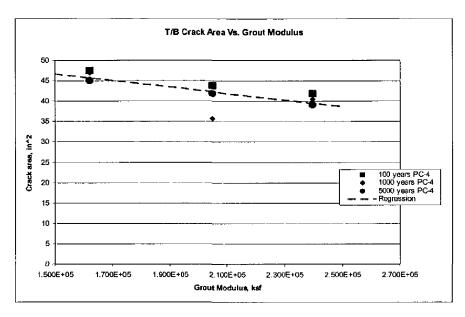
T-CLC-Z-00006, Rev. 0

# **Calculation Continuation Sheet**

Sheet

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**Top Cracks** 



A linear regression fit gives the following expression

$$CA_{tgm}\!\!\left(\mathbf{E}_{g}\right) := -8.025 \cdot 10^{-5} \cdot \!\!\left(\mathbf{E}_{g} - \mathbf{E}_{gm}\right)$$

Examples

$$CA_{tgm}(1.9 \cdot 10^5) \approx 1.188$$

$$CA_{tgm}(1.9 \cdot 10^5) = 1.188$$
  $CA_{tgm}(2.5 \cdot 10^5) = -3.627$ 

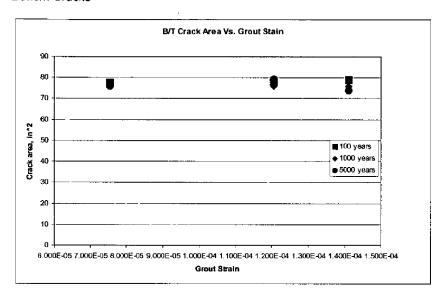
T-CLC-Z-00006, Rev. 0 Calculation Continuation
Sheet

Sheet

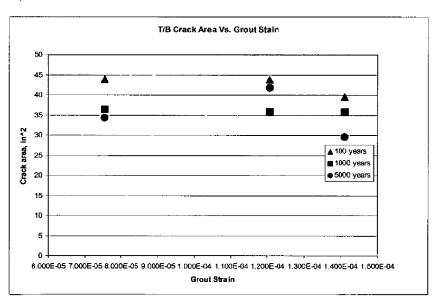
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# **Grout Cracking Strain Effect**

# **Bottom Cracks**



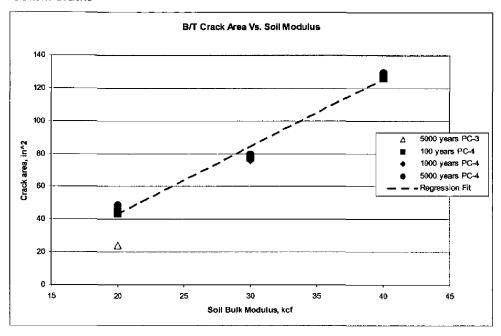
Top Cracks



No significant effect of saltstone cracking strain on crack area was noted.

# Soil Bulk Modulus Effect

## **Bottom Cracks**



The expression for the soil bulk modulus effect is derived similarly:

$$K_{sm} := 30$$

$$\mathrm{CA}_{sm}\!\!\left(\mathrm{K}_{s}\right) := 4.112 \!\cdot\! \left(\mathrm{K}_{s} - \mathrm{K}_{sm}\right)$$

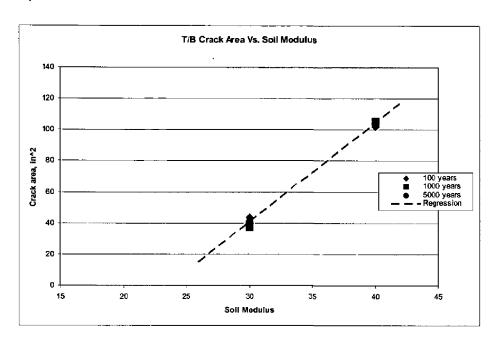
Examples

$$CA_{sm}(25) = -20.56$$

$$CA_{sm}(45) = 61.68$$

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**Top Cracks** 



The expression for the effect on top crack area is derived similarly:

$$K_{sm} := 30$$

$$CA_{tsm}(K_s) := 6.372 \cdot (K_s - K_{sm})$$

Examples

$$CA_{tsm}(25) = -31.86$$

$$CA_{tsm}(45) = 95.58$$

This value is added to the crack area.

## Total Crack Area

$$\mathrm{CA}_b \coloneqq \mathrm{CA}_{ds}\!\left(\Delta_d\right) + \mathrm{CA}_{ext}\!\left(\mathrm{Ex}\right) + \mathrm{CA}_{gm.}\!\left(\mathrm{E}_g\right) + \mathrm{CA}_{sm}\!\!\left(\mathrm{K}_s\right)$$

 $\text{CA}_{gm}$  is either  $\text{CA}_{1gm}$  or  $\text{CA}_{2gm}$ 

$$CAt := CA_{tds}(\Delta_d) + CA_{tex}(Ex) + CA_{tgm}(E_g) + CA_{tsm}(K_s)$$

## 8.3.10 Differential Settlement at Location 3

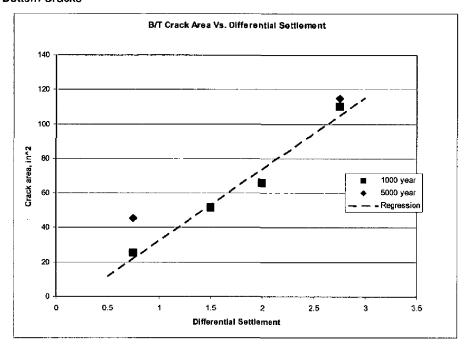
The parameters affecting the formation of cracks due to differential settlement are:

- · magnitude of settlement
- · time of settlement with respect to the static settlement condition
- · extent of settlement
- · saltstone modulus
- saltstone cracking strain
- soil bulk modulus

Note: B/T cracks are cracks open at the bottom. T/B cracks are cracks open at the top.

#### Settlement Magnitude

#### **Bottom Cracks**



The settlement is related to the magnitude by linear regression of the 1000 year data.

CA_{ds} - Crack Area due to differential settlement magnitude, in²

 $\Delta_d$  - Differential settlement, in.

$$CA_{ds}(\Delta_d) := 41.51 \cdot \Delta_d - 9.28$$

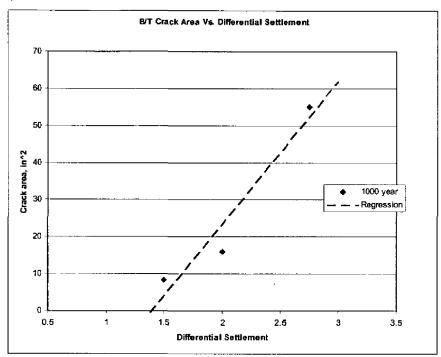
Examples

$$CA_{ds}(2) = 73.74$$

$$CA_{ds}(1.25) = 42.607$$

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

Top Cracks



The settlement is related to the magnitude by linear regression of the 1000 year data.

CAt_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_{d}$  - Differential settlement, in.

$$CA_{tds}(\Delta_d) := 38.61 \cdot \Delta_d - 53.97$$

Examples

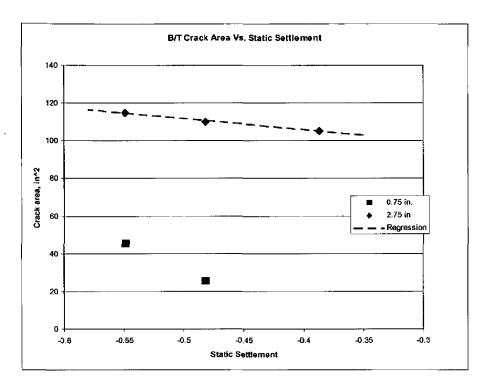
$$CA_{tds}(2.4) = 38.694$$

$$CA_{tds}(2.8) = 54.138$$

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

## Effect of Static Settlement (time)

**Bottom Cracks** 



PC-4 data is used to adjust the crack area for the static settlement effect on the earthquake differential settlement.

 $\Delta_{1000}$  is static settlement at 1000 years, ft.

$$\Delta_{1000} := -.4823$$

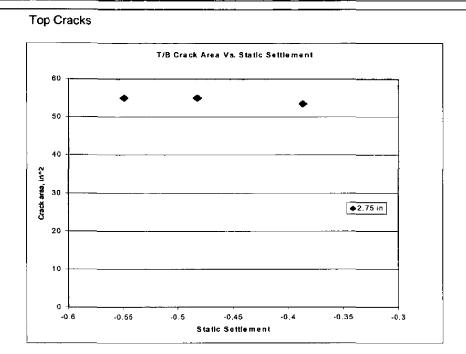
 $\Delta_{\text{S}}$  is static settlement, ft.

$$CA_{ss}(\Delta_s) := -59.41 \cdot (\Delta_s - \Delta_{1000})$$

Examples

$$CA_{SS}(-.4) = -4.889$$

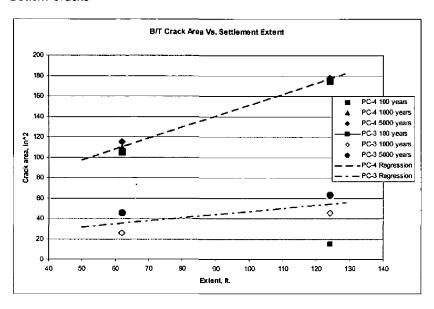
$$CA_{SS}(-.6) = 6.993$$



There were no trends noted for static settlement condition at the time of occurrence of the earthquakethat affect the top crack area.

#### Effect of Extent of Settlement

**Bottom Cracks** 



Exm := 62

The slope of the data regression fit is greater for the PC-4 than the PC-3 data. Assume a linear variation of the slope.

$$S_{pc3} := 0.3024$$

$$S_{pc4} := 1.0784$$
  $A_{sl} := .5$   $B_{sl} := .5$ 

$$A_{s1} := .5$$

$$3_{sl} := .5$$

Given

$$S_{pc3} = A_{sl} \cdot 0.75 + B_{sl}$$

$$S_{pc4} = A_{sl} \cdot 2.75 + B_{sl}$$

$$\mathsf{AA} \coloneqq \mathsf{Find} \big( \mathsf{A}_{sl} \, , \mathsf{B}_{sl} \big)$$

$$AA = \begin{pmatrix} 0.388 \\ 0.011 \end{pmatrix}$$

$$Sl(\Delta_d) := 0.388 \cdot \Delta_d + 0.011$$

$$CA_{ex}(Ex, \Delta_d) := SI(\Delta_d) \cdot (Ex - Exm)$$

Ex is settlement extent, ft.

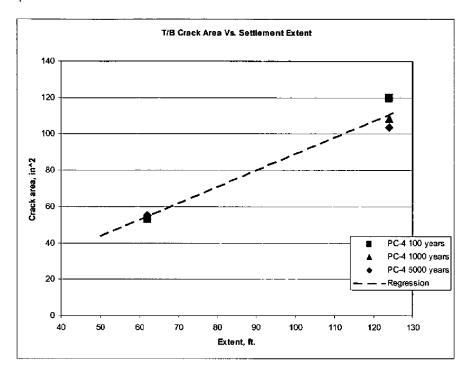
Exm is mean settlement extent

Examples

$$CA_{ex}(40,2) = -17.314$$
  $CA_{ex}(140,1.5) = 46.254$ 

$$CA_{ex}(140, 1.5) = 46.254$$

Top Cracks



The relationship is expressed as follows:

$$CA_{tex}(Ex) := 0.9058 \cdot (Ex - Exm)$$

Examples

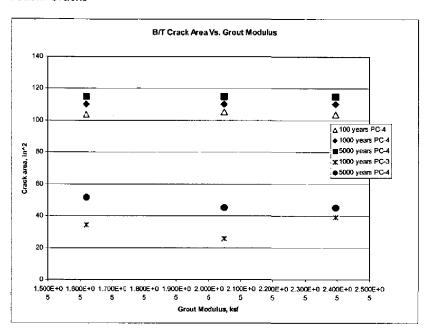
$$CA_{tex}(55) = -6.341$$

$$CA_{tex}(125) = 57.065$$

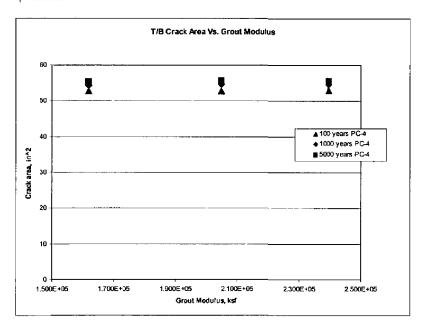
T-CLC-Z-00006. Rev. 0 Calculation Continuation Sheet
Sheet

# Effect of Saltstone Modulus

**Bottom Cracks** 



Top Cracks

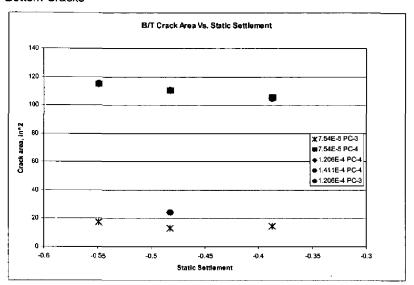


No trends in the data were noted for Saltstone Modulus Effects.

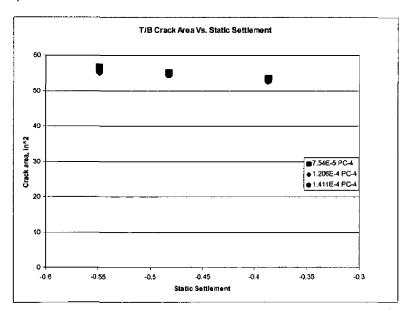
T-CLC-Z-00006. Rev. 0 Calculation Continuation Sheet

# **Grout Cracking Strain Effect**

## **Bottom Cracks**



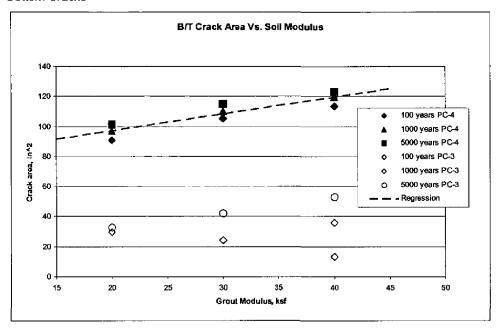
Top Cracks



No significant effect of saltstone cracking strain on crack area was noted.

## Soil Bulk Modulus Effect

## **Bottom Cracks**



The PC-4 data was used to establish an expression for the soil bulk modulus effect by linear regression. The PC-3 data has a similar slope:

$$K_{sm} := 30$$

$$CA_{sm}(K_s) := 1.1205 \cdot (K_s - K_{sm})$$

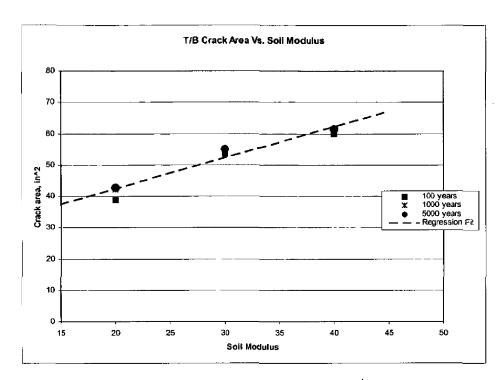
Examples

$$CA_{sm}(25) = -5.603$$

$$CA_{sm}(45) = 16.808$$

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# **Top Cracks**



The expression for the effect on top crack area is derived similarly:

$$K_{sm} := 30$$

$$CA_{tsm}(K_s) := 0.9882 \cdot (K_s - K_{sm})$$

Examples

$$CA_{tsm}(25) = -4.941$$
  $CA_{tsm}(45) = 14.823$ 

$$CA_{tem}(45) = 14.823$$

This value is added to the crack area.

## Total Crack Area

**Bottom Cracks** 

$$CA_b := CA_{ds}(\Delta_d) + CA_{ss}(\Delta_s) + CA_{ex}(Ext, \Delta_d) + CA_{sm}(K_s)$$

Top Cracks

$$CA_t := CA_{tds}(\Delta_d) + CA_{tex}(Ex) + CA_{tsm}(K_s)$$

## 8.3.11 Differential Settlement at Location 4

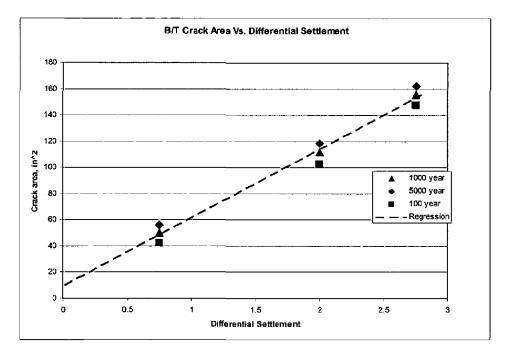
The parameters affecting the formation of cracks due to differential settlement are:

- magnitude of settlement
- time of settlement with respect to the static settlement condition
- · extent of settlement
- saltstone modulus
- · saltstone cracking strain
- soil bulk modulus

Note: B/T cracks are cracks open at the bottom. T/B cracks are cracks open at the top.

## Settlement Magnitude

#### **Bottom Cracks**



The settlement is related to the magnitude by linear regression of the 1000 year data.

CA_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

$$CA_{ds}(\Delta_d) := 52.4206 \cdot \Delta_d + 8.9763$$

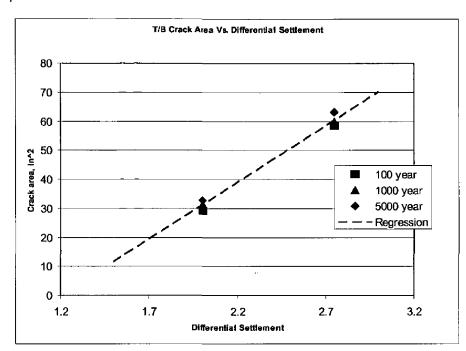
Examples

$$CA_{ds}(2) = 113.817$$

$$CA_{ds}(1.25) = 74.502$$

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

**Top Cracks** 



The settlement is related to the magnitude by linear regression of the 1000 year data.

 $\mathrm{CAt}_{\mathrm{ds}}\,$  - Crack Area due to differential settlement magnitude, in  2 

 $\Delta_d$  - Differential settlement, in.

$$CA_{tds}(\Delta_d) := 39.168 \cdot \Delta_d - 47.232$$

Examples

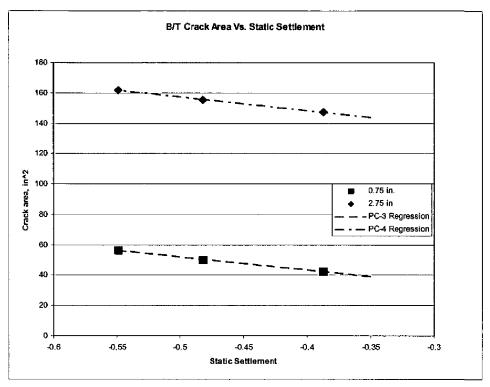
$$CA_{tde}(2.4) = 46.771$$

$$CA_{tds}(2.4) = 46.771$$
  $CA_{tds}(2.8) = 62.438$ 

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

## Effect of Static Settlement (time)

**Bottom Cracks** 



Average slope of the linear regression for PC-3 and PC-4 is used to calculate crack area.

$$S_{pc3} := -86.38942$$

$$S_{pc4} := -89.7028$$

$$S_{pc4} := -89.7028$$
  $SI := \frac{S_{pc3} + S_{pc4}}{2}$ 

$$S1 = -88.046$$

$$\Delta_{1000} := -.4823$$

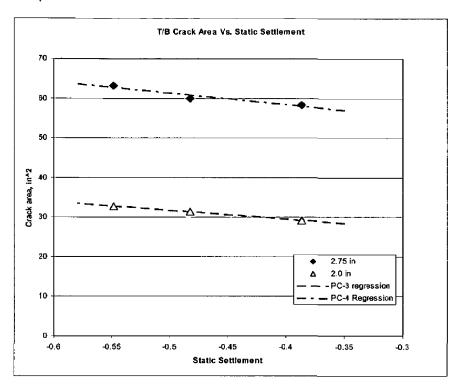
$$CA_{ss}(\Delta_s) := SI \cdot (\Delta_s - \Delta_{1000})$$

Examples

$$CA_{SS}(-.4) = -7.246$$

$$CA_{SS}(-.4) = -7.246$$
  $CA_{SS}(-.6) = 10.363$ 

Top Cracks



Average slope of the linear regression for PC-3 and PC-4 is used to calculate crack area.

$$S_{pc3} := -22.15328$$

$$S_{pc4} := -29.12115$$

$$SI := \frac{S_{pc3} + S_{pc4}}{2}$$

$$SI = -25.637$$

$$\Delta_{1000} := -.4823$$

$$CA_{tss}(\Delta_s) := SI \cdot (\Delta_s - \Delta_{1000})$$

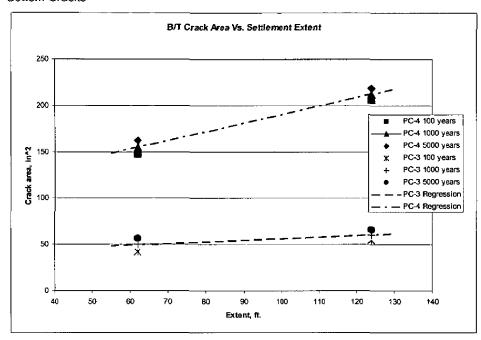
Examples

$$CA_{tss}(-.4) = -2.11$$

$$CA_{tss}(-.6) = 3.018$$

#### Effect of Extent of Settlement

#### **Bottom Cracks**



Exm := 62

The slope of the data regression fit is greater for the PC-4 than the PC-3 data. Assume a linear variation of the slope.

$$S_{pc3} := 0.17354$$
  $S_{pc4} := 0.92323$   $A_{s1} := .5$ 

$$S_{pc4} := 0.92323$$

$$A_{c1} := .5$$

$$B_{s1} := .5$$

Given

$$S_{pc3} = A_{sl} \cdot 0.75 + B_{sl}$$

$$S_{pc4} = A_{sl} \cdot 2.75 + B_{sl}$$

$$AA := Find(A_{sl}, B_{sl}) \qquad AA = \begin{pmatrix} 0.375 \\ -0.108 \end{pmatrix}$$

$$\mathbf{AA} = \begin{pmatrix} 0.375 \\ -0.108 \end{pmatrix}$$

$$SI(\Delta_d) := 0.375 \cdot \Delta_d - 0.108$$

Ex is settlement extent, ft.

$$CA_{ex}(Ex, \Delta_d) := SI(\Delta_d) \cdot (Ex - Exm)$$

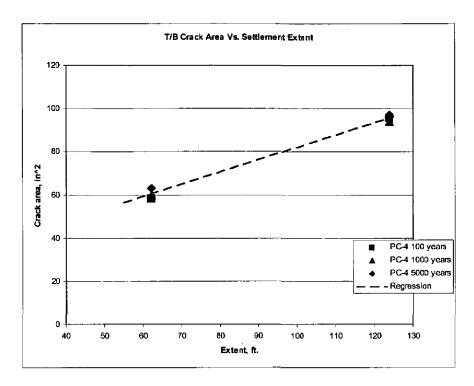
Exm is mean settlement extent

Examples

$$CA_{ex}(40,2) = -14.124$$

$$CA_{ex}(40,2) = -14.124$$
  $CA_{ex}(140,1.5) = 35.451$ 

Top Cracks



The relationship is expressed as follows:

$$CA_{tex}(Ex) := 0.566 \cdot (Ex - Exm)$$

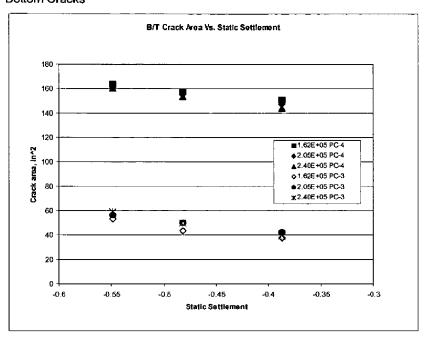
Examples

$$CA_{tex}(55) = -3.962$$

$$CA_{tex}(125) = 35.658$$

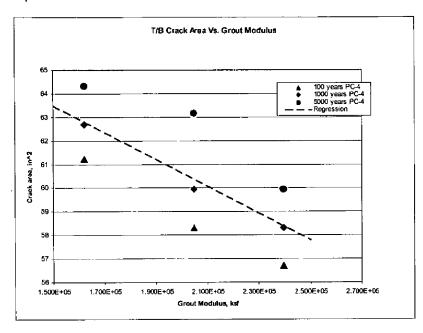
# Effect of Saltstone Modulus

# **Bottom Cracks**



No trends in the data were noted for Saltstone Modulus effects with respect to bottom cracks.

**Top Cracks** 



Linear regression was used to compute the slope of the change in crack area for top cracks with respect to Saltstone modulus

$$E_{gm} := 2.048 \cdot 10^5$$

$$CA_{tgm}(E_g) := -5.6831 \cdot 10^{-5} \cdot (E_g - E_{gm})$$

Examples

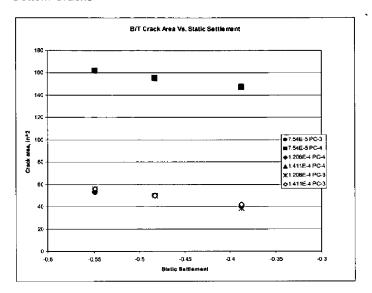
$$CA_{tom}(2.5\cdot10^5) = -2.569$$

$$CA_{tgm}(2.5\cdot10^5) = -2.569$$
  $CA_{tgm}(1.9\cdot10^5) = 0.841$ 

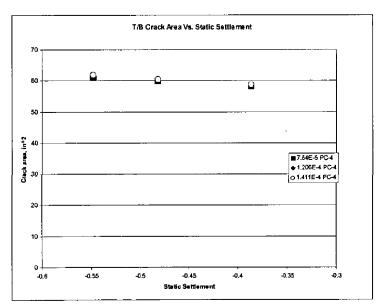
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# **Grout Cracking Strain Effect**

#### **Bottom Cracks**



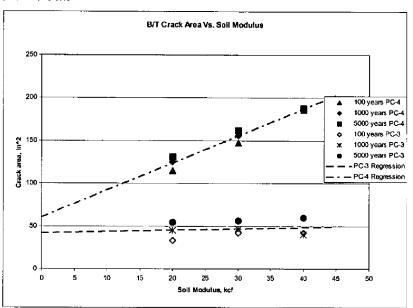
**Top Cracks** 



No significant effect of saltstone cracking strain on crack area was noted.

## Soil Bulk Modulus Effect

#### **Bottom Cracks**



$$K_{sm} := 30$$

The slope of the data regression fit is greater for the PC-4 than the PC-3 data. Assume a linear variation of the slope.

$$S_{pc3} := 0.163$$

$$S_{pc4} := 3.159$$

$$A_{sl} := .5$$

$$B_{sl} := .5$$

Given

$$S_{pc3} = A_{sl} \cdot 0.75 + B_{sl}$$

$$S_{pc4} = A_{sl} \cdot 2.75 + B_{sl}$$

$$\mathsf{AA} \coloneqq \mathsf{Find}\!\left(\mathsf{A}_{sl}\,, \mathsf{B}_{sl}\right)$$

$$AA = \begin{pmatrix} 1.498 \\ -0.96 \end{pmatrix}$$

$$\text{Sl}\!\left(\Delta_{\mathbf{d}}\right) \coloneqq 1.498 {\cdot} \Delta_{\mathbf{d}} - 0.96$$

K_s is soil bulk modulus, kcf

$$CA_{sm}(K_s, \Delta_d) := SI(\Delta_d) \cdot (K_s - K_{sm})$$

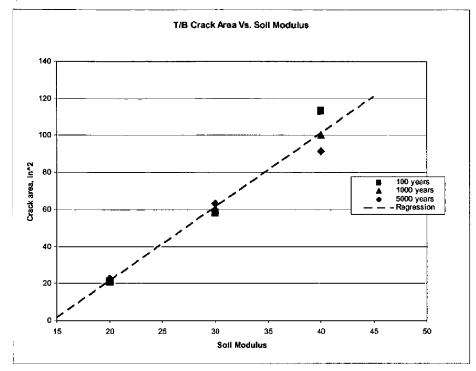
K_{sm} is mean soil bulk modulus

Examples

$$CA_{sm}(20,2) = -20.36$$

$$CA_{sm}(45, 1.5) = 19.305$$

Top Cracks



The expression for the effect on top crack area is based on the PC-4 data.

$$K_{sm} := 30$$

$$CA_{tsm}(K_s) := 3.9822 \cdot (K_s - K_{sm})$$

Examples

$$CA_{term}(25) = -19.91$$

$$CA_{tsm}(25) = -19.911$$
  $CA_{tsm}(45) = 59.733$ 

This value is added to the crack area.

# Total Crack Area

$$\text{Bottom Cracks} \qquad \text{CA}_b \coloneqq \text{CA}_{ds}\!\left(\Delta_d\right) + \text{CA}_{ss}\!\left(\Delta_s\right) + \text{CA}_{ex}\!\left(\text{Ext}, \Delta_d\right) + \text{CA}_{sm}\!\left(\text{K}_s, \Delta_d\right)$$

$$\mathsf{CA}_t \coloneqq \mathsf{CA}_{tds} \Big( \Delta_d \Big) + \mathsf{CA}_{tss} \Big( \Delta_s \Big) + \mathsf{CA}_{tex} (\mathsf{Ex}) + \mathsf{CA}_{tgm} \Big( \mathsf{E}_g \Big) + \mathsf{CA}_{tsm} \Big( \mathsf{K}_s \Big)$$

#### 8.3.12 Differential Settlement at Location 5

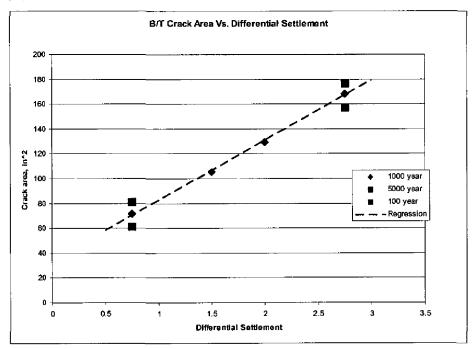
The parameters affecting the formation of cracks due to differential settlement are:

- magnitude of settlement
- · time of settlement with respect to the static settlement condition
- · extent of settlement
- · saltstone modulus
- · saltstone cracking strain
- · soil bulk modulus

Note: B/T cracks are cracks open at the bottom. T/B cracks are cracks open at the top.

## Settlement Magnitude

#### **Bottom Cracks**



The settlement is related to the magnitude by linear regression of the 1000 year data.

CA_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

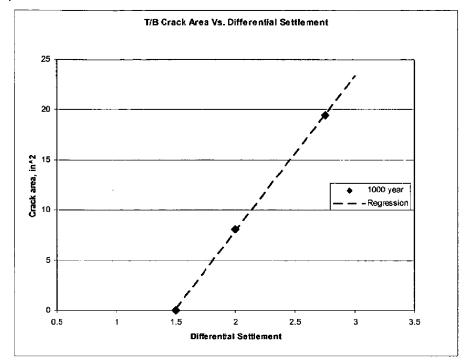
$$CA_{ds}(\Delta_d) := 48.336 \cdot \Delta_d + 34.197$$

Examples

$$CA_{ds}(2) = 130.869$$
  $CA_{ds}(1.25) = 94.617$ 

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

Top Cracks



The settlement is related to the magnitude by linear regression of the 1000 year data.

CAt_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

$$CA_{tds}(\Delta_d) := 15.519 \cdot \Delta_d - 23.1572$$

Examples

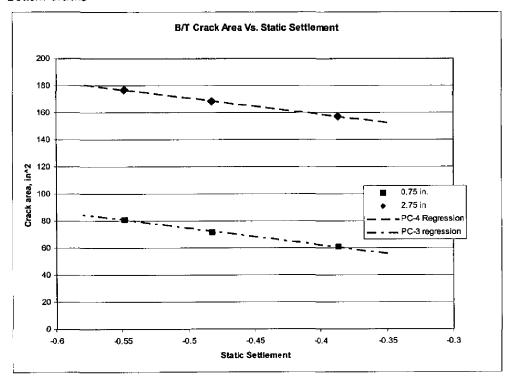
$$CA_{tds}(2.4) = 14.088$$

$$CA_{tds}(2.8) = 20.296$$

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

# Effect of Static Settlement (time)

## **Bottom Cracks**



Average slope of the linear regression for PC-3 and PC-4 is used to calculate crack area.

$$S_{pe3} := -124.521$$

$$S_{pc4} := -119.994$$

$$SI := \frac{S_{pc3} + S_{pc4}}{2}$$

$$S1 = -122.257$$

$$\Delta_{1000} \coloneqq -.4823$$

$$CA_{ss}(\Delta_s) := Sl \cdot (\Delta_s - \Delta_{1000})$$

Examples

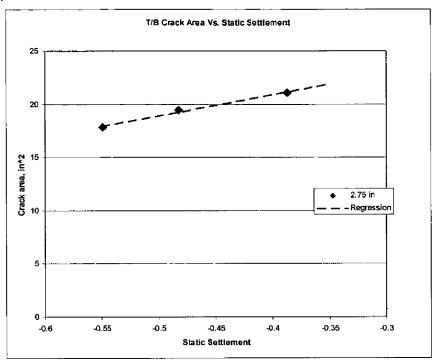
$$CA_{SS}(-.4) = -10.062$$
  $CA_{SS}(-.6) = 14.39$ 

$$CA_{SS}(-.6) = 14.39$$

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Top Cracks



Slope of the linear regression for PC-4 is used to calculate crack area.

$$S_{pc4} := 19.804$$

$$\Delta_{1000} := -.4823$$

$$\mathrm{CA}_{tss}\!\left(\Delta_{s}\!\right) \coloneqq \mathrm{S}_{pc4}\!\cdot\!\!\left(\Delta_{s}\!-\!\Delta_{1000}\!\right)$$

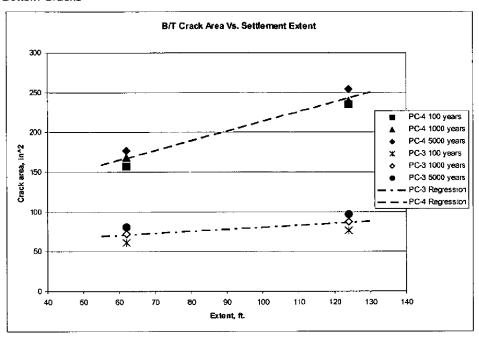
Examples

$$CA_{tss}(-.4) = 1.63$$

$$CA_{tss}(-.6) = -2.331$$

#### Effect of Extent of Settlement

#### **Bottom Cracks**



Exm := 62

The slope of the data regression fit is greater for the PC-4 than the PC-3 data. Assume a linear variation of the slope.

$$S_{pc3} := 0.25077$$
  $S_{pc4} := 1.21936$   $A_{sl} := .5$   $B_{sl} := .5$ 

$$S_{po4} := 1.21936$$

$$A_{cl} := .5$$

$$B_{c1} := .5$$

Given

$$S_{pc3} = A_{sl} \cdot 0.75 + B_{sl}$$

$$S_{pc4} = A_{sl} \cdot 2.75 + B_{sl}$$

$$\mathsf{A}\mathsf{A} := \mathsf{Find}\!\left(\mathsf{A}_{\mathsf{Sl}}\,,\mathsf{B}_{\mathsf{Sl}}\right)$$

$$AA = \begin{pmatrix} 0.484 \\ -0.112 \end{pmatrix}$$

$$Sl(\Delta_d) := 0.484 \cdot \Delta_d - 0.112$$

Ex is settlement extent, ft.

$$CA_{ex}(Ex, \Delta_d) := SI(\Delta_d) \cdot (Ex - Exm)$$

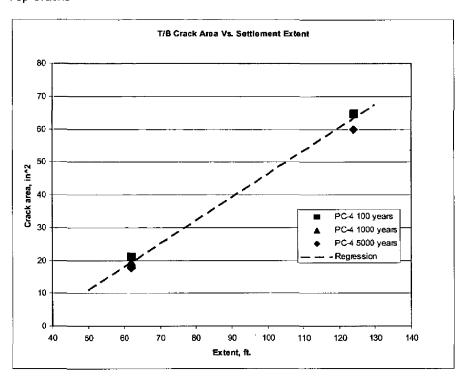
Exm is mean settlement extent

Examples

$$CA_{ex}(40,1) = -8.184$$
  $CA_{ex}(140,2.5) = 85.644$ 

$$CA_{ev}(140, 2.5) = 85.644$$

Top Cracks



The relationship is expressed as follows:

$$CA_{tex}(Ex) := 0.7055 \cdot (Ex - Exm)$$

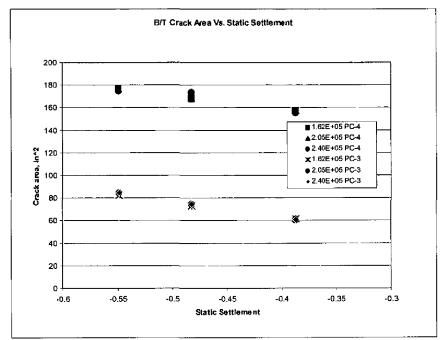
Examples

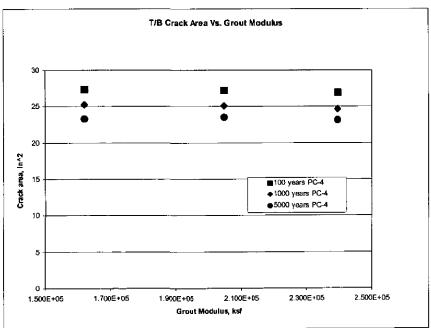
$$CA_{tex}(55) = -4.939$$

$$CA_{tex}(125) = 44.447$$

# Effect of Saltstone Modulus

#### **Bottom Cracks**

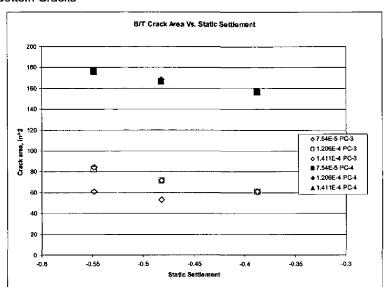




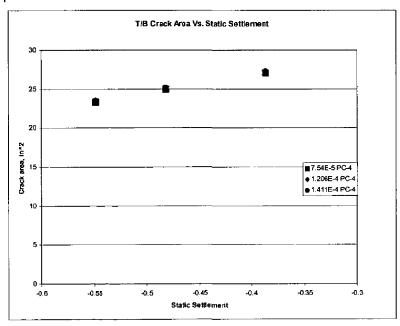
No trends in the data were noted for Saltstone Modulus effects with respect to bottom cracks.

# **Grout Cracking Strain Effect**

## **Bottom Cracks**



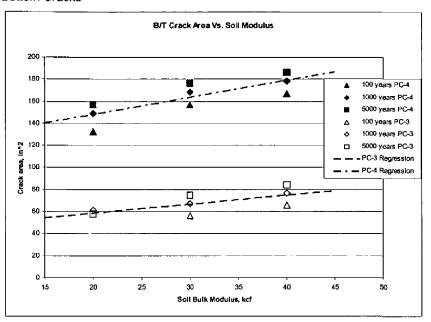
**Top Cracks** 



No significant effect of saltstone cracking strain on crack area was noted.

# Soil Bulk Modulus Effect

#### **Bottom Cracks**



$$K_{sm} := 30$$

The slope of the data regression fit is greater for the PC-4 than the PC-3 data. Assume a linear variation of the slope.

$$S_{pc3} := 0.816$$

$$S_{pc4} = 1.543$$

$$A_{sl} := .5$$

$$B_{sl} := .5$$

Given

$$S_{pc3} = A_{sl}.0.75 + B_{sl}$$

$$S_{pc4} = A_{sl} \cdot 2.75 + B_{sl}$$

$$\mathsf{AA} \coloneqq \mathsf{Find}\!\left(\mathsf{A}_{sl},\mathsf{B}_{sl}\right)$$

$$AA = \begin{pmatrix} 0.364 \\ 0.543 \end{pmatrix}$$

$$SI(\Delta_d) := .364 \cdot \Delta_d + .543$$

Ks is soil bulk modulus, kcf

$$CA_{sm}(K_s, \Delta_d) := Sl(\Delta_d) \cdot (K_s - K_{sm})$$

K_{sm} is mean soil modulus

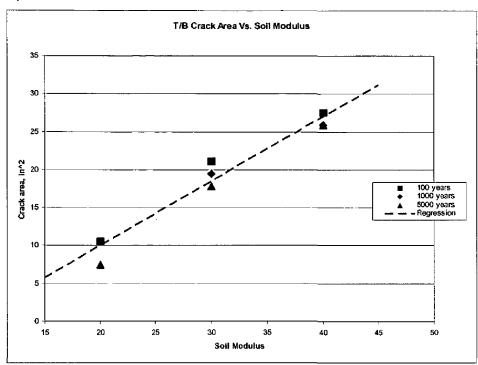
Examples

$$CA_{sm}(20,2) = -12.71$$
  $CA_{sm}(45,1.5) = 16.335$ 

$$CA_{sm}(45, 1.5) = 16.335$$

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The expression for the effect on top crack area is based on the PC-4 data.

$$K_{sm} := 30$$

$$CA_{tsm}(K_s) := 0.848 \cdot (K_s - K_{sm})$$

Examples

$$CA_{tsm}(25) = -4.24$$

$$CA_{tsm}(45) = 12.72$$

This value is added to the crack area.

# Total Crack Area

$$\text{Bottom Cracks} \qquad \text{CA}_b := \text{CA}_{ds} \Big( \Delta_d \Big) + \text{CA}_{ss} \Big( \Delta_s \Big) + \text{CA}_{ex} \Big( \text{Ext}, \Delta_d \Big) + \text{CA}_{sm} \Big( K_s, \Delta_d \Big)$$

$$\mathsf{CA}_t \coloneqq \mathsf{CA}_{tds} \Big( \Delta_d \Big) + \mathsf{CA}_{tss} \Big( \Delta_s \Big) + \mathsf{CA}_{tex} \big( \mathsf{Ex} \big) + \mathsf{CA}_{tsm} \Big( \mathsf{K}_s \Big)$$

#### 8.3.13 Differential Settlement at Location 6

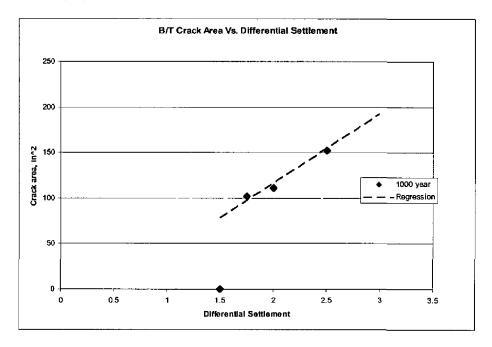
The parameters affecting the formation of cracks due to differential settlement are:

- · magnitude of settlement
- time of settlement with respect to the static settlement condition
- extent of settlement
- saltstone modulus
- · saltstone cracking strain
- soil bulk modulus

Note: B/T cracks are cracks open at the bottom. T/B cracks are cracks open at the top.

## Settlement Magnitude

#### **Bottom Cracks**



The settlement is related to the magnitude by linear regression of the 1000 year data. The regression is truncated at 1.5 in differential settlement

CA_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

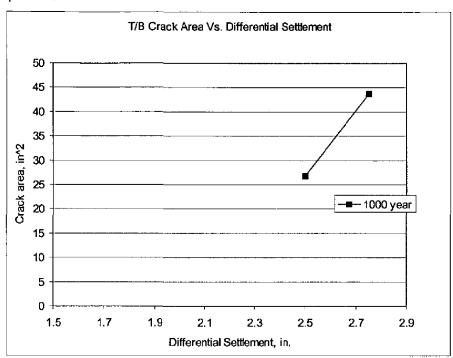
$$CA_{ds}(\Delta_d) := 76.14 \cdot \Delta_d - 35.8425$$

Examples

$$CA_{ds}(2.5) = 154.507$$
  $CA_{ds}(1.75) = 97.403$ 

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

Top Cracks



The settlement is related to the magnitude by the 1000 year data. Data is truncated at crack area = 0.

CAt_{ds} - Crack Area due to differential settlement magnitude

 $\Delta_d$  - Differential settlement, in.

$$CA_{tds}(\Delta_d) := 68.04 \cdot \Delta_d - 143.37$$

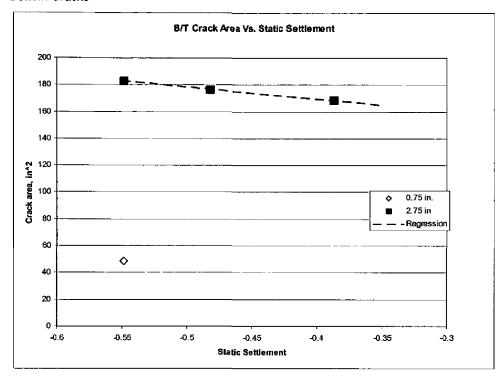
Examples

$$CA_{tds}(2.2) = 6.318$$
  $CA_{tds}(2.8) = 47.142$ 

Settlements larger than PC-4 (2.75 in.) are linearly extrapolated.

# Effect of Static Settlement (time)

**Bottom Cracks** 



Linear regression for PC-4 is used to calculate crack area.

$$S_{pc4} := -89.703$$

$$\Delta_{1000} := -.4823$$

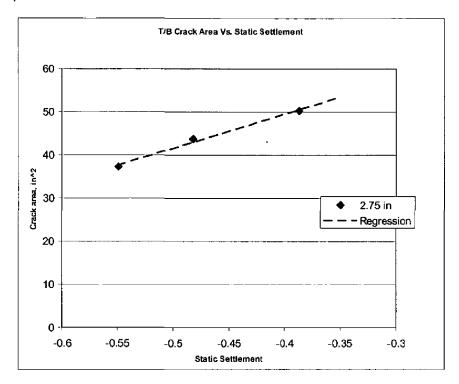
$$CA_{ss}(\Delta_s) := S_{pc4} \cdot (\Delta_s - \Delta_{1000})$$

Examples

$$CA_{SS}(-.4) = -7.383$$

$$CA_{SS}(-.6) = 10.558$$

Top Cracks



Slope of the linear regression for PC-4 is used to calculate crack area.

$$S_{pc4} := 79.216$$

$$\Delta_{1000} := -.4823$$

$$\mathrm{CA}_{tss}\!\left(\Delta_{s}\right) \coloneqq \mathrm{S}_{pc4}\!\cdot\!\left(\Delta_{s} - \Delta_{1000}\right)$$

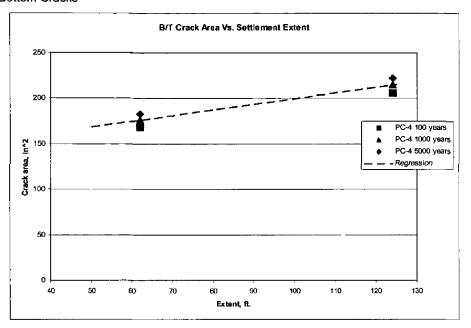
Examples

$$CA_{tss}(-.4) = 6.519$$

$$CA_{tss}(-.6) = -9.324$$

## Effect of Extent of Settlement

## **Bottom Cracks**



Linear regression is used for the PC-4 data to calculate change in crack area.

$$S_{pc4} := 0.6184$$

$$CA_{ex}(Ex) := S_{pc4}(Ex - Exm)$$

Ex is settlement extent, ft.

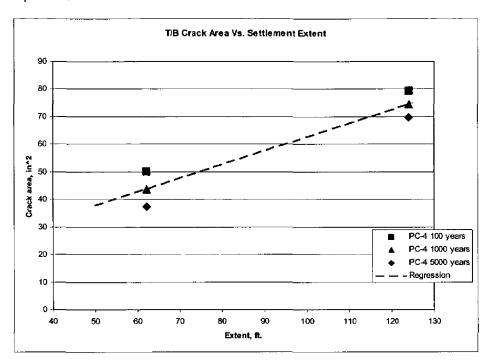
Exm is mean settlement extent

Examples

$$CA_{ex}(40) = -13.605$$

$$CA_{ex}(140) = 48.235$$

Top Cracks



The relationship is expressed as follows:

$$CA_{tex}(Ex) := 0.4964 \cdot (Ex - Exm)$$

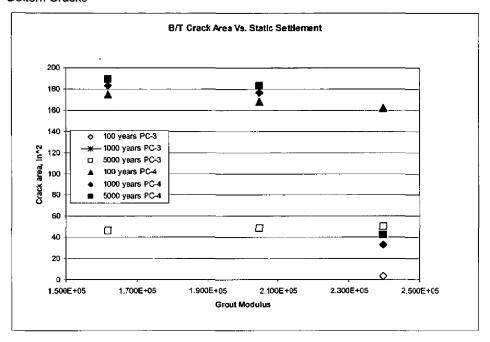
Examples

$$CA_{tex}(55) = -3.475$$

$$CA_{tex}(125) = 31.273$$

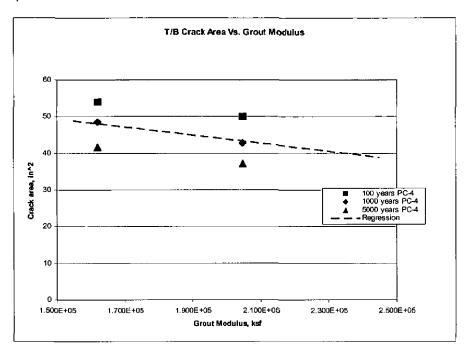
#### Effect of Saltstone Modulus

#### **Bottom Cracks**



There is an anomalous effect for high saltstone modulus. This is related to the anomalous cracking caused by the static settlement as noted previously, since the differential settlements are input to the model in combination with the static settlements. In addition, the crack caused by differential settlement at location 6 is at the same joint (7) as that caused by the static settlement. Otherwise no significant trends are noted.

**Top Cracks** 



A linear regression is used to calculate change in crack area with saltstone modulus.

$$S_{pc4} := -1.1077 \cdot 10^{-4}$$

$$E_{gm} := 2.048 \cdot 10^5$$

$$\mathrm{CA}_{tgm}\!\!\left(\mathrm{E}_{g}\right) := \mathrm{S}_{pc4}\!\cdot\!\left(\mathrm{E}_{g} - \mathrm{E}_{gm}\right)$$

Examples

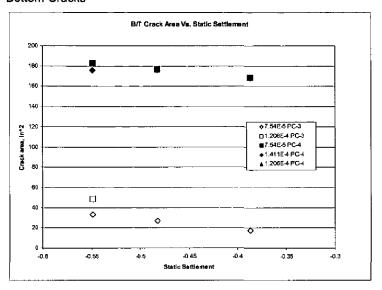
$$CA_{tom}(1.9 \cdot 10^5) = 1.639$$

$$CA_{tgm}(1.9 \cdot 10^5) = 1.639$$
  $CA_{tgm}(2.4 \cdot 10^5) = -3.899$ 

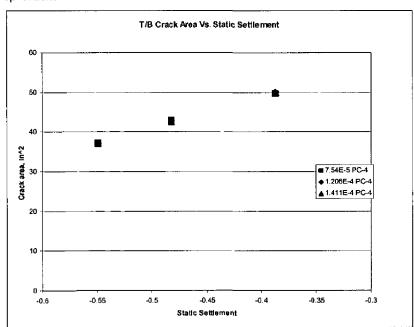
T-CLC-Z-00006, Rev. 0 Calculation Continuation Sheet
Sheet

# **Grout Cracking Strain Effect**

## **Bottom Cracks**



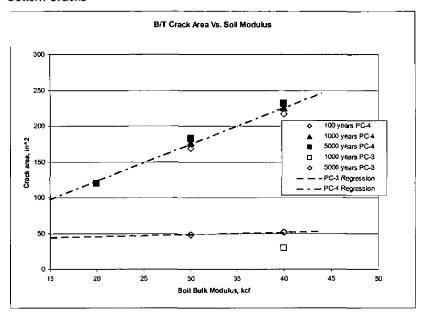
Top Cracks



No significant effect of saltstone cracking strain on crack area is noted.

## Soil Bulk Modulus Effect

#### **Bottom Cracks**



$$K_{sm} := 30$$

The slope of the data regression fit is greater for the PC-4 than the PC-3 data. Assume a linear variation of the slope.

$$S_{pc3} := 0.312$$

$$S_{pc4} := 5.1435$$

$$A_{c1} := .5$$

$$A_{sl} := .5$$
  $B_{sl} := .5$ 

Given

$$S_{pc3} = A_{sl} \cdot 0.75 + B_{sl}$$

$$S_{pc4} = A_{sl} \cdot 2.75 + B_{sl}$$

$$\mathsf{AA} \coloneqq \mathsf{Find} \big( \mathsf{A}_{sl} \,, \mathsf{B}_{sl} \big)$$

$$AA = \begin{pmatrix} 2.416 \\ -1.5 \end{pmatrix}$$

$$Sl(\Delta_d) := 2.416 \cdot \Delta_d - 1.5$$

K_s is soil bulk modulus, kcf

$$CA_{sm}(K_s, \Delta_d) := SI(\Delta_d) \cdot (K_s - K_{sm})$$

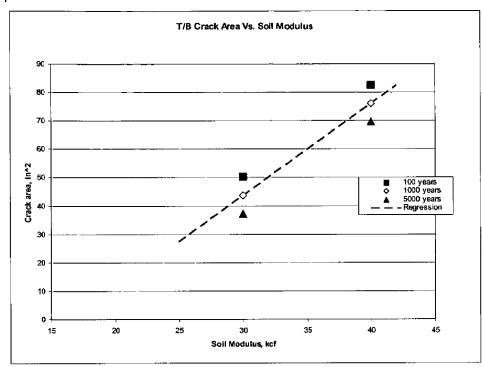
K_{sm} is mean soil bulk modulus, kcf

Examples

$$CA_{sm}(20,1.5) = -21.24$$
  $CA_{sm}(45,2) = 49.98$ 

$$CA_{sm}(45,2) = 49.98$$

Top Cracks



The expression for the effect on top crack area is based on the PC-4 data.

$$K_{sm} := 30$$

$$CA_{tsm}(K_s) := 3.24 \cdot (K_s - K_{sm})$$

Examples

$$CA_{tsm}(25) = -16.2$$
  $CA_{tsm}(45) = 48.6$ 

$$CA_{tem}(45) = 48.6$$

This value is added to the crack area.

## Total Crack Area

$$CA_b := CA_{ds}(\Delta_d) + CA_{ss}(\Delta_s) + CA_{ex}(Ext, \Delta_d) + CA_{sm}(K_s, \Delta_d)$$

$$CA_{t} := CA_{tds}(\Delta_{d}) + CA_{tss}(\Delta_{s}) + CA_{tb}(Ex) + CA_{tgm}(E_{g}) + CA_{tsm}(K_{s})$$

#### Section 8.3.14 Data Check

Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

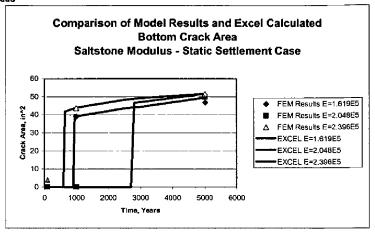
Comparison of Model Results with Excel Calculated Crack Areas

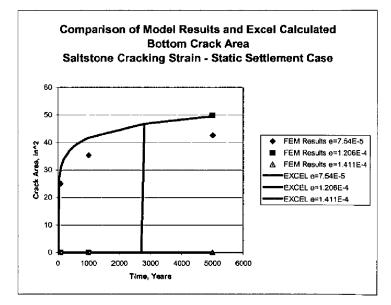
#### **Bottom Cracks from Static Settlement**

Time	Crack Areas - FE Model Results						
Grout Mod Time	1.62E+05	2.05E+05	2.40E+05				
100	0	0	3.9				
1000	39	0	43.65				
5000	46.8	49.92	51.48				
Grout Strain	7.54E-05	1.21E-04	1.41E-04				
Time 100	25.05	0	۸				
1000	35.4	0	0				
5000	42.6	49.92	0				

	Crack Areas EXCEL Workbook						
Grout Mod	1.62E+05	2.05E+05	2.40E+05				
Time							
100	0	0	0				
500	0	0	0				
600	0	0	0				
650	0	0	41.78				
<b>70</b> 0	0	0	42.14				
800	0	0	42.79				
900	0	0	43.36				
950	39.9	0	43.62				
1000	39.16	0	43.95				
2500	43.6	0	48.31				
2700	43.97	0	48.69				
2800	44.15	46.75	48.86				
3000	44.48	47.09	49.2				
5000	49.56	51.75	51.68				

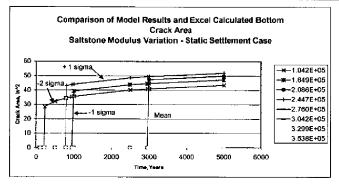
Г	Crack Areas	EXCEL Wo	rkbook
Grout Strain	7.54E-05	1.21E-04	1.41E-04
Time			
25	0	0	0
50	27.23	0	0
100	30.61	0	0
125	31.67	0	0
150	32.55	0	0
200	33.95	0	0
400	37.31	0	0
500	38.4	0	0
600	39.28	0	0
650	39.66	0	0
950	41.51	0	0
1000	41.76	0	0
2700	46.58	0	0
2800	46.75	46.75	0
3000	47.09	47.09	0
5000	49.56	49.56	o

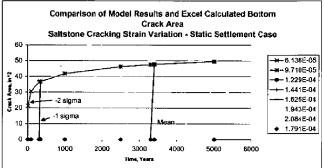




Saltstone M	oduluş	Time, years											
		100	200	225	500	775	800	950	1000	2500	2950	3000	5000
-5 sigma	N/A		_										
-4 sigma	N/A												1
-3 sigma	N/A												
-2 sigma	1.042E+05	5 0	0	28.41	32.29	34.41	34.57	35.4	35.657	40.097	40.9	40.98	43,457
-1 sigma	1.649E+05	<b>5</b> 0	0	0	0	0	0	0	39.34	43.782	44.58	44.68	47,142
mean	2,086E+05	5 0	0	0	0	0	0	0	0	0	0	47.32	49.795
+1 sigma	2.447E+05	5 0	0	0	0	0	43.1	43.93	44.186	48.627	49,43	49,51	51.986
•2 sigma	2.760E+05	5 0	0	0	0	0	0	0	0	0	0	0	0
+3 sigma	3.042E+05	5 0	0	0	0	0	0	0	0	0	0	Ò	ò
•4 sigma	3.299E+05	5 0	0	Ó	0	Ö	0	0	Ö	ō	ō	ō	ō
+5 sigma	3.538E+05	5 0	0	0	0	0	0	0	Q	0	0	0	0

Saltstone C	racking Strain	Time, years									
		10	15	100	325	350	1000	2500	3300	3400	5000
-5 sigma	N/A				•						
-4 sigma	N/A	i									
-3 sigma	N/A	i									
-2 sigma	8.136E-05		21.39	30.59	36,31	36.67	41.78	46.2	47.55	47.69	49,56
-1 sigma	9.710E-05	1 0	0	0	0	36.67	41.78	46.2	47.55	47.69	49.56
mean	1.229E-04	0	0	0	0	0	0	0	0	47.69	49.56
+1 sigma	1.441E-04	0	0	0	0	0	0	0	0	0	0
+2 sigma	1.625E-04	0	0	0	o	0	0	0	0	0	o
+3 sigma	1.791E-04		0	0	0	0	0	0	0	0	ō
+4 sigma	1.943E-04	0	0	0	o	0	O-	0	0	0	ō
+5 sigma	2.084E-04		0	0	0	Ö	Ō	Ö	Ó	0	ō





#### Data Check

Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

Comparison of Model Results with Excel Calculated Crack Areas

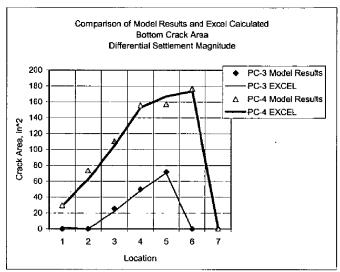
Crack Area as Related to Differential Settlement Magnitude

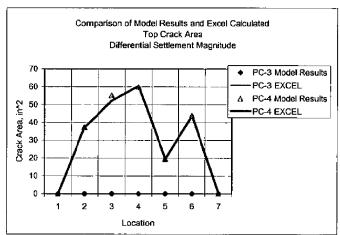
PC-3 0.75 in. @ 1000 years

Location of Settlement	FE Model	Results	Crack Areas From EXCEL		
	Bottom	Тор	Bottom	Тор	
1 []	0	0	2.01	0.00	
2	0 0		0.00	0	
3	25.5	0	21.85	0	
4	49.92	0	48.29	0	
5	71.76	0	70.45	0	
6	0 0		0.00	0	
7	0	0	0	0	

PC-4 2.75 in. @ 1000 years

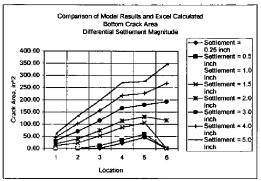
Location of	Crack Are		Crack Areas From		
Settlement	FE Model	Results	EXCEL		
	Bottom	Тор	Bottom	Тор	
1	29.48	0	28.89	0.00	
2	73.32	37.26	62.51	37.30	
3	110.16	55.08	104.87	52.21	
4	155.52	59.94	153.13	60.49	
5	157.14	19.44	167.13	19.48	
6	176.58 43.74		173.54	43.74	
7	0	0	0.00	0.00	

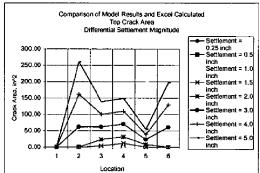




# Check Range of Parameter mean properties - 1000 years

<b>Bottom Cracks</b>		S	ettlement					
Location	0.25	0.5	1	1.5	2	3	4	5
1	0.00	0.00	5.37	12.09	18.81	32.25	45.69	59.13
2	0.00	0.00	7.13	22.96	38.78	70.42	102.07	133.72
3	1.10	11.47	32.23	52.98	73.74	115.25	156,76	198.27
4	22.08	35.19	61.40	87.61	113.82	166.24	218.66	271.08
5	46.28	58.37	82.54	106,71	130.88	179.22	227.56	275.90
5	0.00	0.00	0.00	0.00	116,44	192,58	268.72	344.86
Top Cracks								
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	62,11	161,35	260.59
3	0.00	0.00	0.00	3.95	23.25	61.86	100.47	139.08
4	0.00	0.00	0.00	11.52	31,11	70.28	109.45	148.62
5	0.00	0.00	0.00	0.08	7.84	23,36	38.88	54.40
6	0.00	0.00	0.00	0.00	0.00	60.75	128.79	196.83





#### **Data Check**

Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

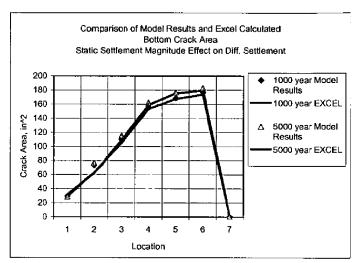
Comparison of Model Results with Excel Calculated Crack Areas Crack Area (caused by differential settlement) as Related to Static Settlement Magnitude

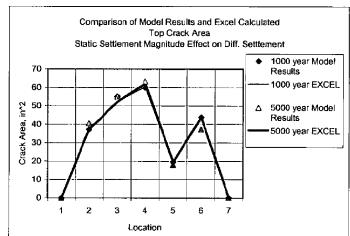
PC-4 2.75 in. @ 1000 years

Location of Settlement	FE Model		Crack Areas From  EXCEL		
	Bottom Top		Bottom	Тор	
1	29.49	0	28.89	0.00	
2	73.32	37.26	62.51	37.30	
3	110.16	55.08	104.87	52.21	
4	155.52	59.91	153.13	60.49	
5	168.48	19.44	167.13	19.48	
6	176.58	43.74	173.54	43.74	
7	0	0	0.00	0.00	

PC-4 2.75 in. @ 5000 years

Location of			Crack Areas From		
Settlement	FE Model	Results	[ EXC	EL	
	Bottom Top		Bottom	Тор	
1	28.5	0	31.63	0.00	
2	76.44	40.5	62.51	37.30	
3	115.02	55.08	108.83	52.21	
4	162	63.18	159.00	62.20	
5	176.56	17.82	175.28	19.48	
6	183.06 37.23		179.52	43.74	
7	0	0	0.00	0.00	

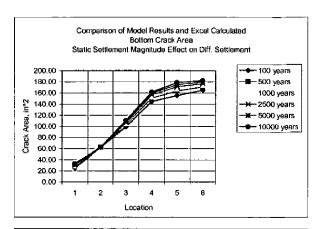


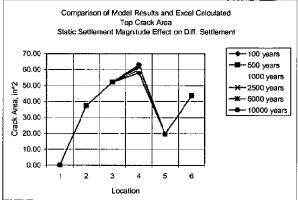


# **Calculation Continuation Sheet**

Check Range of Parameter Mean properties - PC-4 EQ

Bottom Crack	ks	Т	ime			
Location	100	500	1000	2500	5000	10000
1	24.96	27.70	28.89	30.45	31.63	32.82
2	62.51	62.51	62.51	62.51	62.51	62.51
3	99.21	103.17	104.87	107.13	108.83	110.53
4	144.74	150.61	153.13	156.47	159.00	161.52
5	155.48	163.63	167.13	171.77	175.28	178.79
6	165.00	170.97	173.54	176.95	179,52	182.09
Top Cracks						
1	0.00	0.00	0.00	0.00	0.00	0.00
2	37.30	37.30	37.30	37.30	37.30	37.30
3	52.21	52.21	52.21	52.21	52.21	52.21
4	58.04	59.75	60.49	61.46	62.20	62.93
5	19.48	19.48	19.48	19,48	19.48	19.48
6	43.74	43.74	43.74	43.74	43.74	43.74





Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

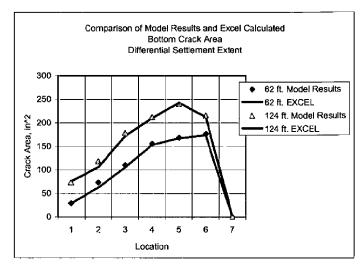
Comparison of Model Results with Excel Calculated Crack Areas Crack Area as Related to Differential Settlement Extent PC-4 2.75 in. @ 1000 years

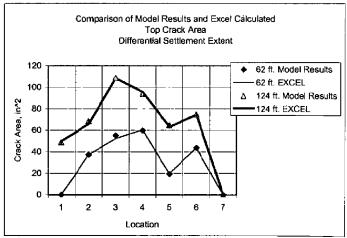
Extent = 62 ft.

I ASSESSAD SE				
Location of	Crack Are	as From		
Settlement	FE Mode!	Results	Crack Areas	From EXCEL
	Bottom	Top	Bottom	Тор
1	29.4	0	28.89	0.00
2	73.32	37.26	62.51	37.30
3	110.16	55.08	104.87	52.21
4	155.52	59.91	153.13	60.49
5	168.48	19.44	167.13	19.48
6	176.58	43.74	173.54	43.74
7	0	0	0.00	0.00

Extent = 124 ft.

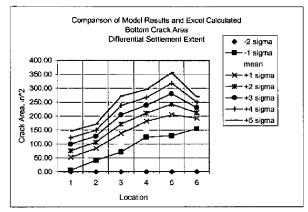
Location of	Crack Are	eas From			
Settlement	FE Mode	l Results	Crack Areas From EXCEL		
	Bottom	Тор	Bottom	Тор	
1	73.32	48.6	75.81	49.78	
2	118.26	68.4	105.98	66.07	
3	178.2	108.54	171.71	108.37	
4	212.22	93.96	210.40	95.58	
5	239.76	64.8	242.71	63.19	
6	215.46	74.52	211.89	74.49	
7	0	0	0.00	0.00	

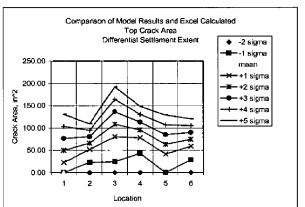




Check Range of Parameter Mean properties - 1000 years, PC-4 EQ

Bottom Craci	ks	Exte	nt of Settlem	ent							
Location	-5 sigma	-4 sigma	-3 sigma	-2 sigma	-1 sigma	mean	+1 sigma	+2 sigma	+3 sigma	+4 sigma	+5 sigma
	-93	-62	-31	0	31	62	93	124	155	186	217
1	N/A	N/A	N/A	0.00	5.43	28.89	52.35	75.81	99.27	122.73	146.19
2	N/A	N/A	N/A	0.00	40.78	62.51	84.24	105.98	127.71	149.44	171.17
3	N/A	N/A	N/A	0.00	71.45	104.87	138.29	171.71	205.13	238.54	271.96
4	N/A	N/A	N/A	0.00	124.50	153.13	181.77	210.40	239.03	267.67	296.30
5	N/A	N/A	N/A	0.00	129,35	167.13	204.92	242,71	280,50	318.29	356.08
6	N/A	N/A	N/A	0.00	154.37	173.54	192.72	211.89	231.06	250.23	269.40
Top Cracks											
1	N/A	N/A	N/A	0.00	0.00	0.00	22.90	49.78	76.66	103.53	130.41
2	N/A	N/A	N/A	0.00	22.92	37.30	51.68	66.07	80.45	94.84	109.22
3	N/A	N/A	N/A	0.00	24.13	52.21	80.29	108.37	136.45	164.53	192.61
4	N/A	N/A	N/A	0.00	42.94	60.49	78.03	95.58	113,13	130.67	148.22
5	N/A	N/A	N/A	0.00	0.00	19.48	41.34	63.19	85.05	106.90	128.76
6	N/A	N/A	N/A	0.00	28.36	43.74	59.12	74.49	89.87	105.24	120.62





#### Data Check

Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

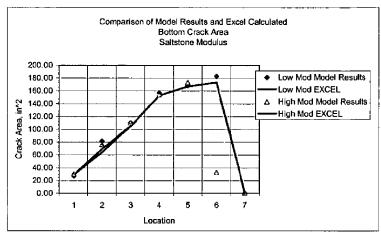
Comparison of Model Results with Excel Calculated Crack Areas Crack Area as Related to Saltstone Modulus PC-4 2.75 in. @ 1000 years

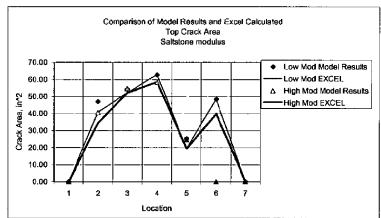
Low 1.619E5

Location of Settlement	Crack Are FE Mode		Crack Areas From  EXCEL		
	Bottom Top		Bottom	Top	
1	27.00	0.00	28.89	0.00	
2	81.49	46.98	68.91	40.74	
3	110.16	54.27	104.87 153.13 167.13	52.21	
4	157.14	62.69		62.93	
5	168.48	25.27		19.48	
6	183.06	48.44	173.54	48.49	
7	0.00	0.00	0.00	0.00	

High 2.396E5

Location of Settlement	Crack Are		Crack Areas From EXCEL		
	Bottom	Тор	Bottom	Top	
1	30	0	28.89	0.00	
2	76.14	40.5	64.31	34.51	
3	110.16	54.59	104.87	52.21	
4	153.9	58.32	153.13	58.51	
5	173.34	24.62	167.13	19.48	
6	32.76	Q.	173.54	39.88	
7	0	0	0.00	0.00	

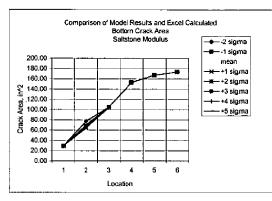


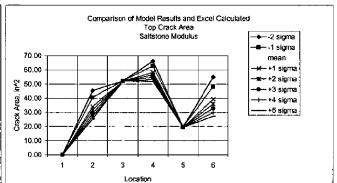


Check Range of Parameter

Mean properties - 1000 years, PC-4 EQ, 62 ft.

Bottom Crac	:ks		Saltstone	Modulus							
Location	-5 sigma	-4 sigma	-3 sigma	-2 sigma		mean	+1 sigma	+2 sigma	+3 sigma	+4 sigma	+5 sigma
	N/A	N/A	N/A	1.04E+05	1.65E+05	2.09E+05	2.45E+05	2.76E+05	3.04E+05	3.30E+05	3.54E+05
1	N/A	N/A	NA	28.89	28.89	28.89	28.89	28.69	28.89	28.89	28.89
2	N/A	N/A	N/A	77.50	68.46	62.71	64.58	66.20	67.65	68.98	70.22
3	N/A	N/A	NιA	104.87	104.87	104.87	104.87	104.87	104.87	104.87	104.87
4	N/A	N/A	N/A	153.13	153.13	153.13	153.13	153, 13	153.13	153.13	153.13
5	N/A	N/A	NA	167.13	167.13	167.13	167.13	167.13	167.13	167.13	167.13
6	N/A	N/A	N/A	173.54	173.54	173.54	173.54	173.54	173.54	173.54	173.54
Top Cracks											
1	N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	N/A	N/A	NA	45.37	40.50	37.00	34.10	31.59	29.32	27.26	25.34
3	N/A	N/A	N/A	52.21	52.21	52.21	52.21	52.21	52.21	52.21	52.21
4	N/A	N/A	N/A	66.20	62.75	60.27	58.22	56.44	54.84	53.38	52.02
5	N/A	N/A	N/A	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48
6	N/A	N/A	N/A	54.89	48.16	43.32	39.32	35.85	32.73	29.88	27.23





#### Data Check

Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

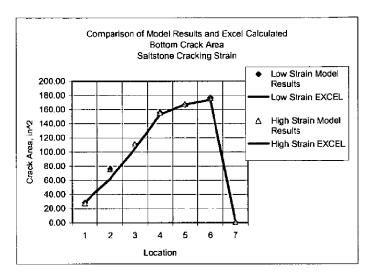
Comparison of Model Results with Excel Calculated Crack Areas Crack Area as Related to Saltstone Cracking Strain PC-4 2.75 In. @ 1000 years

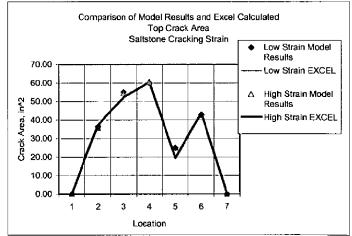
Low 7.54E-5

Location or Settlement	FE Model		Crack Areas From EXCEL		
	Battom Top		Bottom	Тор	
1	28.50	0.00	28.89	0.00	
2	76.14	36.45	62.51	37.30	
3	110.16	55.08	104.87	52.21	
4	155.52	59.94	153.13	60.49	
5	166.83	24.95	167.13	19.48	
6	176.58 42.93		173.54	43.74	
7	0.00	0.00	0.00	0.00	

High 1.411E-4

Location of Settlement	Crack Are		Crack Areas From EXCEL		
·	Bottom	Тор	Bottom	Тор	
1	27.3	0	28.89	0.00	
2	75.65 35.8		62.51	37.30	
3	110.81	54.59	104.87	52.21	
4	155.36 60.43		153.13	60.49	
5	167.67 25.11		167.13	19.48	
6	176.26 42.61		173.54	43.74	
7	0	0	0.00	0.00	





Sheet

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Check Range of Parameter Mean properties - 1000 years, PC-3 EQ, 62 ft.

Bottom Cra	icks		Saltstone	Cracking \$	Strain						
Location	-5 sigma	-4 sigma	-3 sigma	-2 sigma	-1 sigma	mean	+1 sigma	+2 sigma	+3 sigma	+4 sigma	+5 sigma
	N/A	N/A	N/A	6.14E-05	9.71E-05	1.23E-04	1.44E-04	1.63E-04	1.79E-04	1.94E-04	2.08E-04
	1 N/A	N/A	N/A	28.89	28.89	28.89	28.89	28.89	28.89	28.89	28.89
	2 N/A	N/A	N/A	62.51	62.51	62.51	62.51	62.51	62.51	62.51	62.51
	3 N/A	N/A	N/A	104.87	104.87	104.87	104.87	104.87	104.87	104.87	104.87
	4 N/A	N/A	N/A	153.13	153.13	153.13	153.13	153.13	153.13	153.13	153.13
	5 N/A	N/A	N/A	167.13	167.13	167.13	167.13	167.13	167.13	167.13	167.13
	6 N/A	N/A	N/A	173.54	173.54	173.54	173.54	173.54	173.54	173.54	173.54
Top Cracks	3										
	1 N/A	N/A	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2 N/A	N/A	N/A	37.30	37.30	37.30	37.30	37.30	37.30	37.30	37.30
	3 N/A	N/A	N/A	52.21	52.21	52.21	52.21	52.21	52.21	52.21	52.21
	4 N/A	N/A	N/A	60.49	60.49	60.49	60.49	60.49	60.49	60.49	60.49
	5 N/A	N/A	N/A	19.48	19.48	19.48	19.48	19.48	19.48	19.48	19.48
	6 N/A	N/A	N/A	43.74	43.74	43.74	43.74	43.74	43.74	43.74	43.74

No effect of Grout Cracking Strain on Crack Area caused by Differential Settlement

Data Check

Note: There is a slight variation in the data due to the graphical take-offs of the crack widths and lengths. This variation is insignificant in terms of standard deviations.

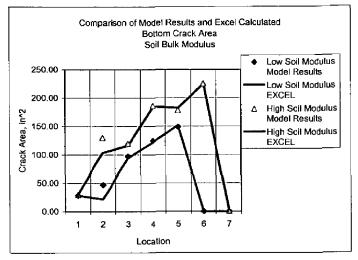
Comparison of Model Results with Excel Calculated Crack Areas Crack Area as Related to Soil Bulk Modulus PC-4 2.75 in. @ 1000 years

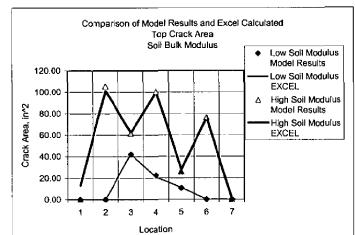
Low 20 kcf

Location of Settlement	Crack Area FE Model		Crack Are	
[	Bottom	Тор	Bottom	Тор
1	28.50	0.00	27.84	0.00
2	46.80	0.00	21.39	0.00
3	97.20	42.12	93.67	42.33
4	124.74	22.68	121.55	20.67
5	149.04	10.50	151.69	11.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00

High 40 kcf

Location of Settlement	Crack Area		Crack Are	
i i	Bottom_	Тор	Bottom	Тор
1	29.4	0	29.93	13.00
2	129.6	105.3	103.63	101.02
3	119.88	61.56	116.08	62.09
4	186.3	100.44	184.72	100.31
5	178.2	25.92	182.57	27.96
6	225.18	76.14	224.98	76.14
7	<u> </u>	0	0.00	0.00

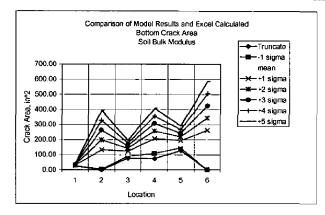


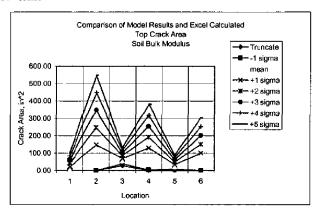


255

Check Range of Parameter Mean properties - 1000 years, PC-3 EQ, 62 ft.

Bottom Crac	ks		Saltstone	Cracking :	Strain			
Location	Truncate	-1 sigma	mean	+1 sigma	+2 sigma	+3 sigma	+4 sigma	+5 sigma
	5	15.756	31.512	47.268	63.024	78.78	94.536	110.292
1	26.27	27.40	29.05	30.69	32.34	33.99	35.64	37.29
2	0.00	3.95	68.73	133.52	198.31	263.10	327.89	392.68
3	76.86	88.91	106.57	124.22	141.88	159.53	177.18	194.84
4	74.17	108,15	157.91	207.68	257.44	307.21	356.97	406.74
5	128.53	145.14	169.47	193.80	218.12	242.45	266.78	291.11
6	0.00	0.00	181.32	262.37	343.42	424.47	505,52	586.57
Top Cracks								
1	0.00	0.00	1.97	22.45	42.93	63.41	83.90	104.38
2	0.00	0.00	46.93	147.33	247,73	348.13	448.52	548.92
3	27.50	38.13	53.70	69.27	64.64	100.41	115.98	131.55
4	0.00	3.76	66.51	129.25	192.00	254.74	317.48	380.23
5	0.00	7.40	20.76	34.12	47,48	60.85	74.21	87.57
6	0.00	0.00	48,64	99.69	150.74	201.79	252.84	303,89





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#### 8.3.16. Sensitivity Study for Differential Settlement Magnitude.

The geotechnical data for differential settlement consists of two data points. There is a settlement of 0.75 inches for a PC-3 event with an annual recurrence interval of 2500 years, and a settlement of 2.75 inches for a PC-4 event with a 10,000 year annual recurrence. Seismic probability curves are generally expressed as log functions. For this study, the differential settlement is expressed as a linear function of the log of probability. The analysis uses 10 year time steps so the annual probabilities are converted into probabilities of occurrence in a ten year interval.

Per DOE-1020, Appendix A:

 $EP = 1 - (1 - p)^n$  where EP is exceedence probability during a period of n years, and p is the annual probability of occurrence.

The 10 year probability of exceedence is 3.993x10⁻³ for PC-3 and 1x10⁻³ for PC-4.

The opinion of the SGS is that, since the settlement zones are small, settlement would decrease relatively for larger events until some threshold is reached for an incredible event that would cause massive subsidence of the region.

The slope of the probability curve after PC-4 is reduced to account for this effect. A value of 4 inches for a 10⁻⁵ event was judged appropriate to anchor the curve. To verify that this choice would have little effect on the analysis results, a sensitivity study was run where the increased slope was compared to a constant slope. The following page shows the results of this study.

At 10,000 years, the mean increased by 9% for bottom cracks and by 28% for top cracks. However, because of the large uncertainties in this analysis, these variations are well within a +1 sigma band for the increased slope assumption.

-- - Case 1 +1 sigma

Bottom Crack Area, in^2

- - Case 2 mean

- - Case 1 +1 sigma

Case 1 mean

-Case 1 - 1 sigma

700.00 600.00 500.00 400.00

Case 1 - No decrease in differential settlement for extreme events

Results for 1000 Iterations - Sensitivity to Probability Slope

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	•			
Time -1	sigma	Mean	+1 sigma	
100	-29.54	11.36	52.26	
200	-35.44	32.80	101.04	
1000	-36.26	55.00	146.26	
2500	-15.58	108.69	232.97	
2000	22.87	198.80	374.72	
10000	117.13	379.59	642.04	

## Fop Cracks

	Cra	Crack Area, in^2	^z
Time	-1 sigma	Mean	+1 sigma
100	-39.20	3.07	45.34
200	-42.10	8.29	58.68
1000	-49.49	15.84	81.16
2500	-61.13	36.11	133.35
2000	-55.53	67.65	190.83
10000	-37.40	128.96	295.32

Time, years

00.0

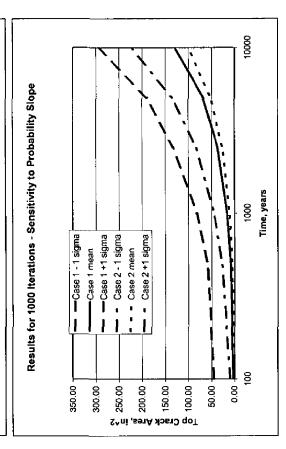
200.00

Case 2 - Decreased Slope for Extreme Events Bottom Cracks

113.07	Crack Area, in^2 Time -1 sigma Mean +1 sigma 100 -13.02 7.69 28.39 500 -19.20 27.57 74.34 1000 -22.72 47.19 117.10 2500 -12.36 100.36 213.08 5000 22.80 184.80
--------	----------------------------------------------------------------------------------------------------------------------------------------------------------------

## Top Cracks

-31.79 51.53	100 500 1000 2500 5000	-1 sigma -7.21 -16.74 -22.82 -30.51		+1 sigma +1 sigma 9.19 27.02 44.15 82.50 134.85
10000 -23.64 100.46 224.56	10000	-23.64	100.46	224.56



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#### 8.3.17 Results

A Monte Carlo analysis is performed in EXCEL. A copy of the EXCEL spreadsheets and Visual Basic program are found at the end of this section. The following pages show the analysis results and cumulative probability distributions for the analysis. The sharp rise at low probabilities is caused by the truncation of some of the parameters and by the lack of seismic events except at very low probabilities. The truncation effect is more pronounced for lower analysis times. Probability curves for 1000 and 10,000 years are shown.

The spreadsheet performs 6300 iterations until convergence is reached. The convergence criterion is that the mean, standard deviation and 95% values for the crack areas at the predefined times change by less than 1.5% for two successive periods of 100 iterations each. The next page shows the crack areas for bottom and top cracks plotted against time. The mean and standard deviation are provided.

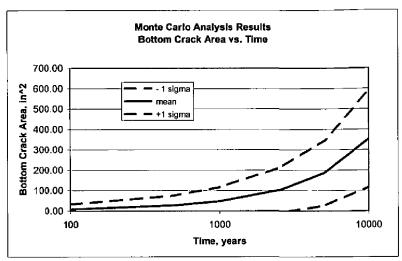
#### Monte Carlo Analysis - 6300 Iterations 1.5% Convergence (100 Iteration Interval)

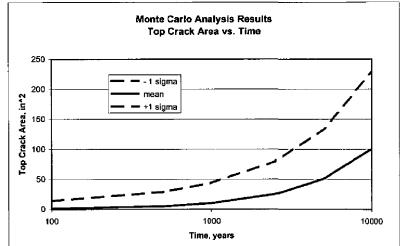
#### **Bottom Cracks**

Crack Area, in^2								
Time	-1 sigma	Mean	+1 sigma	95%				
100	-16.07	8.48	33.02	43.41				
500	-20.81	27.39	75.60	120.00				
1000	<b>-21.14</b>	47.87	116.88	193.94				
2500	-8.98	101.50	211.98	323.95				
5000	26.00	186.53	347.05	503.82				
10000	117.80	353.26	588.72	803.26				

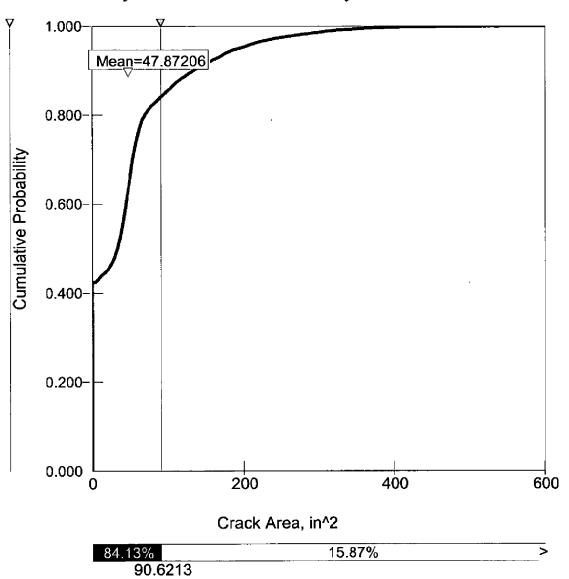
#### **Top Cracks**

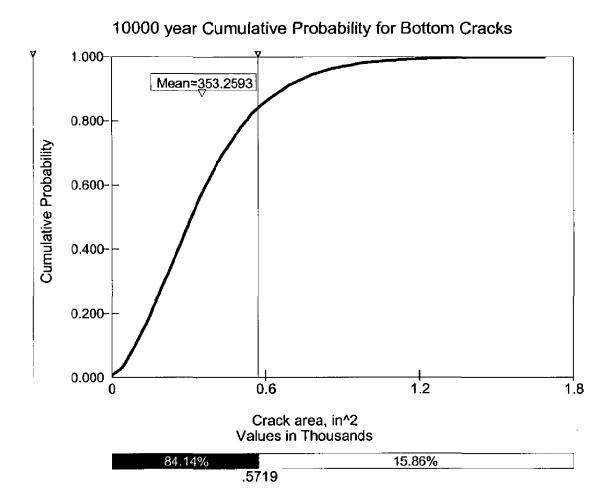
Cra	ck Area, ir	1^2	
-1 sigma	Mean	+1 sigma	95%
-11.7473	1.138347	14.02396	0
-19.3953	4.702576	28.80046	27.48173
-23.8571	10.00278	43.86267	70.27372
-29.5225	25.20769	79.93791	136.4661
-32.4191	50.77802	133.9751	221.9252
-26.6981	100.5485	227.7951	355.855
	Cra -1 sigma -11.7473 -19.3953 -23.8571 -29.5225 -32.4191	Crack Area, Ir -1 sigma Mean -11.7473 1.138347 -19.3953 4.702576 -23.8571 10.00278 -29.5225 25.20769 -32.4191 50.77802	Crack Area, In^2 -1 sigma Mean +1 sigma -11.7473 1.138347 14.02396 -19.3953 4.702576 28.80046 -23.8571 10.00278 43.86267 -29.5225 25.20769 79.93791 -32.4191 50.77802 133.9751 -26.6981 100.5485 227.7951

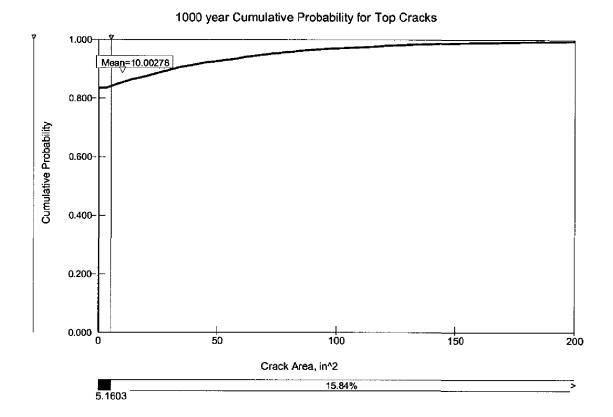


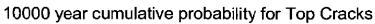


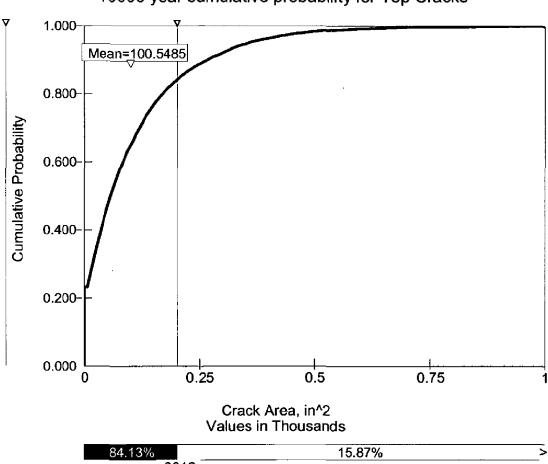
#### 10000 year Cumulative Probability for Bottom Cracks











.2012

#### Calculation Sheet

_	DC	Project	See Cos					Calculation N	lo. -C-モーロの	006
6	RS	Subject		^					Sheet No	). . 4-,
Rev	0	riginator	Date	Checker	Date	Rev	Originator	Date	Checker	Date
0	w	LB	7/9/03	GEM	7/10/3					
					' '					

The following calculates the crack Size based on crack aron based on typical cracks observed in the FE Model

A= \frac{1}{2} w x (h x 12) = wh xb (triangular exact assumed)

TYPICAL	LRACKS		
w	h	Acres	
0.164	26	25.4	length is width one related
0.297	26	432	•
0,238	乙知	37.1	may length = 29' ( single
805.0	260	32.4	compression zone ob top is
0.307	27	49.7	weresay for equilibraum
0.18%	25	273	Ç Y
0.467	27	75.7	
0.70%	27	114.7	27
0 203	25	30.5	26 -
			25
		Q	
		~	0.3

 $l = 9.259 \times \omega + 23.758 \le 27$  where l = evack length  $\omega = \text{crack width}$ 

$$A = \omega (l)(b)$$

$$= \omega (9.259\omega + 23.758)6$$

$$= 55.554\omega^2 + 142.548\omega$$

$$w = -142.55 \pm 420320 + 222.22 A$$

#### Calculation Sheet

(0	:DC	Project	See Co	vu				Calculation N	10. LC-2-0	
6	) NO	Subject	<b>-</b>	_					Sheet No.	<b>5.</b>
Rev	C	riginator	Date	Checker	Date	Rev	Originator	Date	Checker	Date
v	W)	M	7/9/03	GEM	7/10/3					
					, ·					

$$f_{02} \ \omega = 0.349$$

$$\omega = \frac{1}{20320 + 222.22} A - 1.283 \qquad \text{for } l = 27, \ \omega = 0.350$$

$$111.11$$

$$\omega = \frac{A}{27 \times 6} = \frac{A}{162} = 0.349$$
 A= 56.20

Results

for 
$$A < 56.70$$
,  $\omega = \frac{1}{111.11} \left(20920 + 222.22A\right)^{\frac{1}{2}} - 1.283$   
for  $A \ge 56.70$ ,  $\omega = \frac{A}{162}$ 

# T-CLC-Z-00006, Rev. 0 @Risk Controls

Eg Dist.	0 Grout Modulus Distribution
Geps dist.	Grout Cracking Strain Distribution
Ksn dust.	Soil Bulk Modulus Distribution
Static Dist.	1.0607 Static Settlement Rate Distribution

ameters	2.09E+05 ksf	Grout Modulus
	1.23E-04	Grout Strain
_	31.512 kcf	Soil Bulk Modulus

eps	1.23E-04	Grout Stra
sbm	31.512 kcf	Soil Bulk I
Time Intervals		
Time, years		
100		
200		
1000		
2500		
2000		
10000		
Time Interval	10	
Time Counter	10000	
	01110	

Time Counter	10000	
Static Settlement	-0.5776	
Random Variable		0.15
Differential Settlement		

Location	
Random #	0.376994771
Location	က
Extent	

	60.77	Γ	0.000
Worksheets			Ϋ́
		Values Sent to Worksheets	

Returned From Worksheets		
	B/T	1/ <b>8</b>
Static	53.15853267	ΑN
Location 1	00:0	00'0
Location 2	0.00	0.00
Location 3	0.00	00:0
Location 4	0.00	0.00
Location 5	0.00	0.00
Location 6	0.00	0.00
Location 7	0.00	00:0

Grout Modulus		Grout Cracking Strain	ïË
Grout Mod	2.09E+05	Cr. Strain	0.000122855
Ratio2	1.0187	Ratio3	1.0187
Csmean	524.4		
Cssig	196.8		
Egmean	2.05E+05	Cepsm	1.21E-04

ate	Mean Actual	Settlement Settlement	#; ;;	100 -0.3870 -0.3870	500 -0.4536 -0.4536	1000 -0.4823 -0.4823	2500 -0.5202 -0.5202	5000 -0.5489 -0.5489	0000 -0.5776 -0.5776
Settlement Rate			Time, years		200	1000	2500	2000	10000

-0.095298 -0.19637 <b>4</b>	0.999993785 0.368413272 0.609217827
At Bt	Ratio1 Aq Bo

1	_	,	_	_	_	_	_	<u>~</u>
	Total	T/B		9	J	120.8985509	160.9714423	160.9714423
	Total	B/T	33.18386668	41.99867809	45.79501073	334.4218833	457.2377883	472.6079377
	Total EQ	В/Т	0	o	0	283.6083938	40.07 402.6279662	0,00 414,201783
	EQ	T/B	0	0	00.0	120.90	40.07	0.00
CI GCA CI CA	ĒQ	B/T	0	0	0	283.6083938	119.0195724	11.57381676
	Static	B/T	-0.3870 33.18386668	41.99867809	-0.4823 45.79501073	50.8134895	0.5489 54.60982213	0.5776 58.40615477
	static	settlement	-0.3870	-0.4536	-0.4823	-0.5202	-0.5489	-0.5776
	6	Time S	100	200	1000	2500	2000	10000

T-CLC-Z-00006, Rev. 0

Soil Modulus	
Soil Mod	31.512
Ratio4	1.0504
Ksmsig	15
Ksmmean	30

6.71E-03	-0.3006	-2.173213448	8.0-	8.0
minEP	Ap1	Bp1	Ap2	Bp2
	6.71E-03	0.003993	1.00E-03	0.0001
	0	0.75	2.75	4

			ισ	
obability			4	1
edance Pr			2 3 Offerential Settlement. in.	F
Year Exce			2 Differential (	
Seismic Event 10 Year Exceedance Probability				
Seisn	1.00E-02	1.00E-03	1.00E-04 0	
	thility .	edance Probab	Ехсө	

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Soil Mod Sett Rate	31.512 0.999993785
Cr Strain   Soil	208629.76 0.000122855
	08629.76

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Grout Modulus Distribution	Grout Cracking Strain Distribution	Soil Bulk Modulus Distribution	Static Settlement Rate Distribution
=RiskNormal(0,1,RiskName("Eg Dist."),RiskCormat("Crack workbook.xls!Risk35Matrix,1,))	= RiskNormal(0, 1.RiskNamel*Geps dist*), RiskCommat(*Crack workbook.xls*)Risk35Marrix, 2,) Grout Cracking Strain Distribution	= RiskNormal(0, 1,RiskName("Ksn dist."))	= RiskNormal(1.0607, 0.53, RiskName("Static Dist."))
Eg Dist.	Geps dist.	Ksn dust.	Static Dist.

Eg Dist. Geps dist. Ken dust	=RiskNormal(0.1, RiskName("Eg Dist."), RiskCormat("Crack workbook.xis',RiskSMatrix 1.)) = RiskNormal(0.1, RiskName("Egos dist."), RiskCormat("Crack workbook.xis',Risk3SMatrix, 2.)) = RiskNormal(0.1, RiskNamel"Kan dist"),	Grout Modulus Distribution Grout Cracking Strain Distribution Soil Bulk Modulus Distribution	8
Static Dist.	= RiskNomal(1.0607, 0.53,RiskNamer"Statc Dist."))	Static Settlement Rate Distribution	ion
Parameters			
Eg	010 017	ksf	Grout Modulus
spm	=P10	ka	Soi Bulk Modulus
-			
Time, years			
200			
1000 2500 6000			
10000	ī		
Time Interval	10		
Static Settlement	======================================		
Random Variable Differential Settlement			=RAND() =FFD28+mirEP 0 (FD28+O19.(LOG/\$D\$29+Pp1_VAn1_(LOG/\$D\$29+Bp2_VAp2_))
Location			

Random # Location	=RAND() =MIN(INT(7:B33)+1,7)
Extent Random # Extent	=RAND() =1.0235*MAX(NORMINV(B37,62.31),0)
Values Sent to Worksheets	
Static Sett.	=827
Diff. Sett.	=030
Extent	=B38

Returned From Worksheets	20		
		B/T T/B	
Static	=StaticiF3	AN	
Location 1	='Location 1'!B12	='Location 1'iC12	
Location 2	='Location 2'!B12	="Location 2"C12	
Location 3	='Location 3'iB12	="Location 3"C12	
Location 4	='Location 4'iB12	='Location 4'!C12	
Location 5	='Location 5'IB12	="Location 5!C12	
Location 6	≖'Location 6'!B12	≓'Location 6!C12	
Location 7	0	0	

	0
	Rev.
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Grout Modulus			Grout Cracking Strain	
Grout Mod	=J14"Ratio2		Cr. Strain	=Cepsm*Ratio3
Ratio2	=1.0187*SQRT((MAX(Csmean+Cssig*B4,100))/Csmean)		Ratio3	=1.0187*SQRT((MAX(Csmean+Cssig*B5,100))/Csmean)
Csmean	524.4			
Cssig	196.8			
Egmean	204800		Cepsm	0.0001206
Settlement Rate				
	Mean Cartismont	Actual		
Time, years	1	T T		
=A18	=At*LOG(A18)+Bt	=J21*Ratio1		
=A19	=At*LOG(A19)+Bt	=J22*Ratio1		
=A20	=At*LOG(A20)+Bt	=J23*Ratio1		
=A21	=At*LOG(A21)+Bt	=J24*Ratio1		
-422	=At*LOG(A22)+Bt	-J25*Ratio1		
=A23	=At*LOG(A23)+Bt	=J26*Ratio1		
Ā	-0.095298			
ĕ	-0.196374			
Ratio1	=MAX(Aq*B7+Bq,0.1)			
P. 49	0.368413272300143 0.609217826945147			
<b>T</b>				

Static	Static	EQ	£0	Total EQ	Total	Total
Time Settlement	19√1	B∕T	T/B	ВЛ	1/8	T/B
=A18 =VLOOKUP(F49,\$I\$21;\$K\$26,3,FALSE)  33.1838666829987 0	33.1838666829987 0	0		=149	=K49+H49	=,149
=A19 =VLOOKUP(F50,\$1\$21:\$K\$26,3,FALSE) 41.998678090079	41.998678090079 0	0		=K49+I50	=K50+H50	≐M49+J50
=A20 =VLOOKUP(F51,\$I\$21:\$K\$26,3,FALSE) 45.7950107269465 (	45.7950107269465 0	0		=K50+I51	=K51+H51	=M50+J51
=A21 =VLOOKUP(F52,\$I\$21:\$K\$26,3,FALSE)   50.8134894971594 283.608393767213	50.8134894971594 283.6	08393767213 120.898550852065		=K51+I52	=K52+H52	=M51+J52
=A22 =VLOOKUP(F53,\$1\$21;\$K\$26,3,FALSE)  54.6098221340268 119.01957243813	54.6098221340268 119.0	1957243813 40.0728914651702		=K52+I53	=K53+H53	=M52+J53
=A23 =VLOOKUP(F54.\$I\$21:\$K\$26,3,FALSE)   68.4061547708943 11.57381	58.4061547708943 11.57	3816760892 0		=K53+I54	=K54+154	=M53+J54

	=MAX(P11*Ksmmsan,5)			
	=1,0504*(Ksmmean+Ksmsig*B6)Ksmmean 15			
	00			
	0 075 2.75 4	=10YLOG(Q18,P18.P17;LOG(Q18,LOG(Q18)) 0.000180 0.001 0.0001	m in EP A A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	=017 -0308 -LOG(017) -08 -08
		Seismic Event 10 Year Exceedance Probability	robability	
1.00E-02	4 174			
<u> </u>				
HIII)				
qeq				
lorq (				
3 - J.WE-02				
J.				
P P				
HBO:				
0	0.5	1.5	2.5	io.
		Differential Settlement, in.	£	

BT Crack Areas					
=F49	=F50	=F51	=F52	=F53	#F94
=RiskOutput(T/B / B/T Crack Areas", "Range 1",1) + L49		]*RaskOutput(T/B", Range 1",3) + L51	]=RiskOulput("T/5","Range 1",4) + L52	=RuskOutput(T/B / Bp2", Range 1",5) + 153  =RuskOutput(T/B", 'Range 1",6) + 154	×RiskOutpul(T/B*, 'Range 11',6) + ∟54
T/B Crack Avesa					
=F49	=F50	=651	=F52	FF53	=F54
<ul><li>RiskOutput(Location 4 / T/B Crack Aresa", "Range 2", 1) + M49</li></ul>	=RiskOutput("Location 4", Range 2", 2) + M50	=RiskOutput("Location 4","Range 2",3) + M51	=RiskOulpu("Location 4", 'Range 2",4) + M52	=RiskOutput("Location 4 / Bp2", 'Range 2",5) + M53 = RiskOutput("Location 4", 'Range 2",6) + M54	=RiskOutput("Location 4", Range 2".6) + M54
Eg	Or Strain	Soit Mod	Sett Pale		
=RiskOutput(Tecation 7 / Eg*, Range 3*,1) + Eg	=RiskOutput("Location 7 / Cr Strain", Range 3",2) + eps	-RiskOupul("Location 7 / Sot Mod."Range 3",3) + som   =RiskOutpul("Location 7 / Sett Rate", "Farge 3",4) + Ratio1	=RiskOutput("Location 7 / Sett Rate", "Range 3",4) + Ratio1		

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53.159 Crack Area		-1.05E-06 -0.3087 -1.89E-06	-0.0103 2.38E+05	2.45E+05 36111548	2	961E-05 -28.237 -14.155	-129.730 60.772	0.0001206	30
	93	2. 4. 8. 8.	2.38	2.45E+05 -0 536111548		6.74961E-05 -28.237 -14 155	. <u>1-</u>	0.00	
Out1	Crack Occurrence	Aco1 Bco1 Aco2	Bco2 Eg1	Eg2		Ai Bi Intercent	Ac Crack Area	gsmean ted	sbmmean
-0.5776 in 2.086E+05 ksf 1.229E-04 31.51 kcf	us Effect	6.07094E-05 37.1306292	49.796	-0.549 -117.198	3.362	Grout Strength Effect Modifies time at which first crack occurs	-3698.5 -0.08113 -0.5271691 -0.535510031 1.015822117	<b>Soil Bulk Modulus Effect</b> No effect since settlement rate and soil modulus are related	-
Input Data del1 Eg eps sbm	Grout Modulus Effect	Asc Bsc	CAgm	del5000 slope	CAst	Grout Strength Effect Modifies time at which t	Ags Bgs delm delgs ratio	<b>Soil Bulk Modulus Effect</b> No effect since settlement r	ratio2

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Input Data		:		
del1 Eg eps sbm	=Main:B42 in =Main:Eg ksf =Main:eps =Main:sbm kcf	Out1	=IF(delco <del1,0,cagm+cast) area<="" crack="" th=""><th>k Area</th></del1,0,cagm+cast)>	k Area
Grout Modulus Effect		Crack Occurrence		
Asc Bsc	0.0000607094052640978 37.1306291961258	Aco1 Bco1	-0.00000105 -0.3087	
САвт	=B10°Eg+B11	8co2	-1.0000/183 -0.0103 -0.0103	
del5000 slope	-0.548875032124479 -117.1984	Eg2	236000 245000	
CASI	=slope*(de1-del5000)	delco	=ratio*ratioz*(IF(OR(Eg <eg1_,eg>Eg2_).Aco1*Eg+Bco1.Aco2*Eg+Bco2))</eg1_,eg>	
Grout Strength Effect Modifies time at which first crack occurs	2 0126	Ai Bi Intercept	0.0000674960720038472 -28.2388510515708 =EgYAFBI	
Ays Bggs delm deigs ratko	-00413 -0.08113 =Ags*F31+Bgs =Ags*eps+Bgs =degs/deim	Ac Crack Area	-123.73 =F25'del1+intercept	
Soil Burk Modulus Effect No effect since settlement rate and soil modulus are related		дѕшеап	0.0001206	
ratio2	-			

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spmmean

CAsm2

0.1047

Grout Strength - No Appreciable Effect

Soil Bulk Modulus

CAsm1

Ssm1

del1         -0.57756241 ft.         Static Settlement         Egmean         2.05E+05           gm         2.09E+05 ksf         Grout Modulus         Egmean         2.05E+05           gs         1.23E-04         Grout Strain         Gamean         1.21E-04           sbm         31.512 kcf         Soil Bulk Modulus         Shmmean         30           sett         0 in         Settlement         1000 del100         -0.4823           extent         Fxten         66         -67.4823	Input Data			·	
2.09E+05 ksf Grout Modulus Egmean 1.23E-04 Grout Strain Gsmean 31.512 kcf Soil Bulk Modulus Shamean 0 in Settlement 1000 del1000 int 77.69 ft. Extent setmean	del1	-0.57756241 ft.	Static Settlement		
1.23E-04 Grout Strain Gsmean 31.512 kd Soil Bulk Modulus Shamean 0 in Settlement 1000 del1000 int 77.69 ft. Extent setmean	шB	2.09E+05 ksf	Grout Modulus	Egmean	2.05E+05
131.512 kcf Soil Bulk Modulus Shamean 0 in Settlement 1000 del1000 -0.46 77.69 ft. Extent setmean	SG	1.23E-04	Grout Strain	Gsmean	1.21E-04
0 in Settlement 1000 de11000 -0.46 or 17.69 ft. Extent setmean	spm	31.512 kcf	Soil Bulk Modulus	Sbmmean	ස
77.69 ft. Extent setmean	sett	ni 0	Settlement	1000 del1000	-0.4823
	extent	77.69 ft.	Extent	setmean	62

0
0
i
rack Areas

Input Data					
deli	=MainB42	Ť.	Static Settlement		
Ę	⇒MaintEg	KS.	Grout Modulus		Egmean 204800
22	=Mainleps		Grout Strain		Gsmean 0.0001206
rbm vpm	=Maintsbm	ķeţ	Soil Bulk Modulus		Sbmmean 30
ee#	=MaintB43	<u>.</u>	Settlement	1000	del1000 =At*LOG(F8)+Bt
extent	=MainiB44	¥	Extent		setmean 62
Crack Areas	B/T = F[extent>20,MAX(CA/1+CAst1+CAext1+CAgm1+CAsm1,0],0]	T/B =iF(extent>20,MAX(CAext2+CAsm2,0),0)			
B/T Cracks			T/B Cracks	9	
Magnitude			-		
CATI Amag1 Bmag1	=iF(sett-b.Amag1*sett+Bmag1.0) 13.44 -8.073				
Static Settlement					
CAst1 Sst1	# F(sett>0,3st1*(del1-H8),0) -41,225				
Extent of Settlement					
CAext1	=IF(sett>0,Sext*(extent-setmean),0)		CAext2	=iF(sett>=2,MAX(Sext2*extent+Bext2,0),0)	
Sext	0.7568		Sext2 Bext2	0.867	
Grout Modulus					
CAgm1	=iF(sett>0,(gm-Egmean)*Sgm,0}				
нgs	0.00004748				
Grout Strength - No Appreciable Effect					
Soil Bulk Modulus					
CAsm1	=IF(sett>0,(sbm-Sbmmean)*Ssm1,0)		CAsm2	=IF(sett>2,MAX(1.3*(sbm-\$bmmean),0),0)	
Ssm1	0.1047				

Input Data				
del1	-0.57756241 ft. 2.09F+05 ksf	Static Settlement Grout Modulus		Fomean 2 OSE+OS
S O	1.23E-04	Grout Strain		
sbm	31.512 kcf	Soil Bulk Modulus		⊊
sen extent	77.69 ft.	Settlement		1000 dei1000 -0.4823 setmean 62
				ı
Crack Areas	B/T T/B	Φ		
		1		
B/T Cracks		1/E	T/B Cracks	
Magnitude				
CAL	G	93	CAP	.235.64
Amag1	31.65	A.	Amag2	99.24
Bmag1	-24.51	Br	ag2	-235.61
Extent of Settlement				
CAext1	0	Ö	CAext2	0
CAext11	0	Š	ext21	0
Sext	0.701	Se	Sext2	0.464
Static Settlement				
No effect				
Grout Modulus				
CAgm1	0	CA	CAgm2	0
Sgm11 Sgm12	-1,49E-04 5,17E-05	ß.	Sgm2	-8.03E-05
Grout Strength - No Appreciable Effect				
Soil Bulk Modulus				
CAsm1	0	Ş	CAsm2	0
Sem1	4.112	Sar	Ssm2	6.372

Input Data							
del1	=MainB42 =MainFn	S C	Static Settlement				OURPOC
. s	=Mainteos		rout moustus four Strain			Gsmean	0.0001206
m <b>qs</b>	-Maintsbm		Soit Bulk Modulus			Shmmean	8
sett extent	=Main!B43 =Main!B44	in At	Settlement Extent		000	del1000 setmean	=ArtOG(F8)+Bt 62
Crack Areas	BIT = F[extent>20.MAX[CAT+CAext1+CAgm1+CAsm1,0],0]	T/B =IF(extent>20,MA			1		
B/T Cracks				T/B Cracks			
Magnitude							
CArt Amag1 Bmaq1	~!F[sett>0.75,Amag1*sett+Bmag1,0) 31 646 -24.51			CAr2 Amag2 Bmao2	=Amag2*sett+Bmag2 99.24 -235.61		
Extent of Settlement							
CAext1	==[F(satt>1.5, F(extent<=30,0,C.Aext11),0)			CAext2	F(CA/2>0.JF(extent)		
CAext11 Sext	=!F(CArt>0,(extent-setmean)*Sext.0) 0.701			CAext21 Sext2	=IF(CAr1>0,(extent-se 0.464		
Static Settlement							
No effect							
Great Modubie							
CAgm1	=IF(sett>1.5,IF(gm>204800,Sgm12*(gm-Egmean),Sgm11*(gm-Egmean)),0)	(0)		CAgm2	=!F(CAr2>0,Sgm2*(gr		
Sgm11 Sgm12	-0.000149 0.00005172			Sgm2	-0.0000802519161071	_	
Grout Strength - No Appreciable Effect	lable Effect						
Soil Bulk Modulus							
CAsm1	=iF(sett>1.5/sbm-Sbmmean)*Ssm1,0)			CAsm2	=IF(satt>=2.75,(sbm-		
Ssm1	4.112			\$sm2	6.372		

del1 gm	-0.57 2.(	-0.57756241 ft. 2.09E+05 ksf	Static Settlement Grout Modulus		Egmean	2.05E+05
gs	₹	1.23E-04	Grout Strain		Gsmean	1.21E-04
Som		51,512 KCf 0 in	Settlement		Sbmmean	30 -0 4823
extent		77.69 ft.	Extent		setmean	62
	1		         			
Crack Areas	1/8	1/B 0	0			
B/T Cracks			1/8	T/B Cracks		
Magnitude						
140		c	640		c	
Amag1 Bmag1		41.51	Amag2 Bmag2		38.61 -53.97	
Static Effect				ı 9		
CAst1		0				
Sst1		-59.41				
Extent of Settlement						
CAext1		0	CAext2	X‡5	0	
Sext Sbext		0.388	Sext2	8	0.9058	
:						
Grout Modulus						
No significant effect						
Grout Strength						
No significant effect						
Soil Bulk Modulus						
CAsm1 Ssm1		0 1.1205	CAsm2 Ssm2	N.	<b>0</b> 0.9882	

				ſ	
del1	=Main!B42	ed .	Static Settlement		
<u> </u>			Grout Modulus		
<del>s6</del>	=Main!eps		Grout Strain		Gsmean 0.0001206
spu	=Main!sbm	kď	Soil Bulk Modutus		⊑
sett	=Main!B43 =Main!B44	.⊆ <b>≠</b>	Settlement	1000	del1000 =At*LOG(F8)+Bt setmean 62
1				1	
Crack Areas	B/T =[F(extent>20,MAX(CAr1+CAst1+CAext1+CAsm1,0),0)	T/B =IF(extent>20,MAX(CAr2+CAext2+CAsm2,0),0)			
B/T Cracks			T/B Gracks	eg.	
					T
Magnitudo					- 6
CArt Amag1 Bmag1	=[F(sett>0,Amag1*sett+Bmag1,0) 41.51 -9.28		CAr2 Amag2 Bmag2	= F(sett>0,Amag2*sett+Bmag2,0) 38.61 -53.97	÷44.
Static Effect					电
CAsH Sst1	=IF(sett>0.B26*(del1-del1000).0) -59.41				-0,
Extent of Settlement	ŧ				9 0
CAext1 Sext Sbext	=IF(sott>0,IF(extent>20,(extent-sotmean)*(Soxt*sott+Sbext),0),0) 0.388 0.011		CAext2 Sext2	= F(sott>0, F(extent>30,(extent-setmean)*Sext2,0),0) 0.9058	06,
Grout Modulus					Pw
No significant effect					.0
Grout Strength					1
No significant effect					
Soil Bulk Modulus					
CAsm1 Ssm1	=IF(sett>0,(sbm-Sbmmean)*Ssm1,0) 1.1205		CAsm2 Ssm2	=IF(sett>0,(sbm-Sbmmean)*Ssm2,0) 0.9882	

Input Data				
def1	-0.57756241 ft.	Static Settlement		
mō.	2.09E+05 ksf	Grout Modulus		•
SÖ	1.23E-04	Grout Strain		1.21E
mds .	31.512 kof	Soil Bulk Modulus		⊑
sett	0 in 77.69 ft.	Settlement		1000 del1000 -0.4823 setmean 62
Crack Areas	B/T T/B	0		
B/T Cracks		T/B	T/B Cracks	
Magnitude				
CAr1	0.00	CAr2	8	0.00
Amag1 Bmag1	52.42 8.98	Amag2 Bmag2	25 25	39.17 -47.23
Static Settlement				
CAsta1	0	CAsta2	ta2	0
Asta1	-88.04	Asta2	7	-25.637
Extent of Settlement				
CAext1	0 375 0	CAext2	xt2	0
Bextr Sext	-0.1076 -0.1076	Sext2	N	0.566
Grout Modulus				
CAgm1	0	CAgm2	2 <u>E</u>	0
		Agm		-5.68E-05
Grout Strength - no significant effect	nificant effect			
Soil Bulk Modulus				
CAsm1 Asm Bsm Ssm	0 1.498 -0.961 -0.961	CAsm2 Asm2	<b>m</b> 2	3.9822

dei1 gm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ft. Sur	Static Settlement Grout Modulus		Egmean 204800
\$6 5			Grout Strain		Gemean 0.0001206
Spin			Soil Bulk Modulus		_
sen extent	=MaintE43 r	in See	Settlement	1000	del1000 =At*LOG(F8)+Bt setmean 62
				1	
Crack Areas	B/T =[F(extent>20,MAX(CAr1+CAsta1+CAext1+CAgm1+CAsm1,0),0)	TIB =IF(extenD-20,MAX(CA/2+CAsta2+CAext2+CAgm2+CAsm2,0),0)			
B/T Cracks			T/B Cracks		
Magnitude					
CArt	=iF(sett>0,Amag1*sett+Bmag1.0)		CAr2	=IF(sett>0,Amag2*sett+Bmag2,0)	
Amag1 Bmag1	32.42 8:38		Amag2 Bmag2	39.17 -47.23	<b>C</b> -
Static Settlement					-
CAsta1	터F(sett>0,(del1-del1000)*Asta1,0)		CAsta2	"IF(sett>0,(del1-del1000)*Asta2,0)	
Asta1	-88.04		Asta2	-25.637	
Extent of Settlement					-
CAext1	=F(sett>0,Sext*(extent-setmean),0)		CAext2	=tF(sett>0,Sext2*(extent-setmean),0)	
Bextr Sext	0.1076 =Aext*set+Bext		Sext2	0.566	,
Grout Modulus					
САдт1	0		CAgm2	=F(sett>0,(gm-Egmean)*Agm,0)	-
			Agm	-0.00005683	
Grout Strength - no significant offect	#				
Soil Bulk Modulus					
CAsm1 Asm Bsm Ssm	=F(sutt-0,(sbm-Sbmmean)*Csm,0) 1.488 -0.961 =Asm'sett+Bsm		CAsm2 Asm2	=IF(sett>0,(sbm-Sbmmean)*Asm2,0) 3.9922	

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Input Data			ſ	
del1	-0.57756241 ft.	Static Settlement		
mg	2.09E+05 ksf	Grout Modulus	Egmean	2.05E+05
gs	1.23E-04	Grout Strain	Gsmean	1.21E-04
spm	31.512 kcf	Soil Bulk Modulus	Sbmmean	30
sett	ni 0	Settlement	1000 del1000	-0.4823
extent	77.69 ft.	Extent	setmean	62
	8/1 1/8	F		
Crack Areas		0		
B/T Cracks		T/B Cracks	S)	
Magnitude				
CArt	0	CAr2	0	,
Amag1 Bmag1	48.34 34.2	Amag2 Bmag2	15.52 -23.2	
Static Effect				
CAsat1	0	CAsta2	0	
Ssta1	-122.257	Ssta2	19.8	
Extent of Settlement				
CAext1	0	CAext2	0	
Sbext	0.484 -0.112	Sext2	0.705	
Grout Modulus				
No significant effect				
Grout Strength				
No significant effect				
Soil Bulk Modulus				
CAsmt Ssm1 Sbsm1	0 0.364 0.543	CAsm2 Ssm2	0 0.848	

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Input Data del 1 gm gs sbm sett extent	=Maint B42 =Maint Eg =Maint eps =Maint Sbm =Maint B44	ff. ksf kcf kcf f. f.	Static Settlement Grout Modulus Grout Strain Soil Bulk Modulus Settlement Extent	1000	Egmean 204800 Gsmean 0.0001206 Sbmmean 30 del1000 =Ar'LOG(F8)+Bt setmean 62
Grack Areas	B/T =[F(extent>20,MAX(CArt+CAsatt+CAext1+CAsm1,0),0)	T/B =IF(extent>20,MAX(CA/2+CAext2+CAsm2,0),0)			
B/T Cracks			T/B Cracks	93	Γ.
Magnitude					- c
<b>CAri</b> Amag1 Bmag1	=IF(sett>0,Amag1*sett+Bmag1,0) 48.34 34.2		CAr2 Amag2 Bmag2	=IF(sett>0,Amagz*sett+Bmagz,0) 15.52 -23.2	LC-f
Static Effect					<b>Z</b> -:
CAsat1 Ssta1	=IF(sett>0,Ssta1*(de)1-de)1000),0) -122.257		CAsta2 Ssta2	=IF(sett>0,Ssta2*(del1-del1000),0) 19.8	000
Extent of Settlement	¥				90 Q
<b>CAext1</b> Sext Sbext	=IF(sett>0,(extent-setmean)*(Sext*sett+Sbext),0) 0.484 -0.112		CAext2 Sext2	=IF(sett>0,IF(extent>20,(extent-setmean)*Sext2,0),0) 0.705	io i Pen
Grout Modulus					) ₋ 8
No significant effect					
Grout Strength					
No significant effect					
Soil Bulk Modulus					
CAsm1 Ssm1 Sbsm1	=IF(sett>0,(sbm-Sbmmean)*(Ssm1*sett+Sbsm1),0} 0.364 0.343		CAsm2 Ssm2	=iF(sett>0,(sbm-Sbmmean)*Ssm2,0) 0.848	

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Input Data			Г
del1	-0.57756241 ft.	Static Settlement	
шб	2.09E+05 ksf	Grout Modulus	•
ds	1.23E-04	Grout Strain	1.21E
mds	31.512 kcf	Soil Bulk Modulus	⊊
sett	ui 0	Settlement	-0.48
extent	77.69 ft.	Extent	setmean 62
	B/T T/B	Γ	
Crack Areas	0	•	
B/T Cracks		T/B Cracks	
Magnitude			
CArt	c	(A)	c
Amaq1	76.14	Amag2	68.04
Bmag1	-35.84	Bmag2	-143.37
Static Effect			
CAsat1	0	CAsta2	c
Ssta1	-89.7	Ssta2	79.22
Extent of Settlement			
CAext1 Sext	<b>0</b> 0.6184	CAext2 Sext2	0 0.496
Grout Modulus			-
		CAgm2 Sgm2	0 -1.11E-04
Grout Strength			
No significant effect			
Soil Bulk Modulus			
CAsm1 Ssm1	2.416	CAsm2 Ssm2	0 3.24
Sbsm1	-1.5		

2000;	
State Settlement Groot Modulus Groot Strain Soil But Modulus Settlement Edant	9.6 1
#	=IF(extent>20,IF(stan>25,MAX(CAr2+CAext2+CAgm2+CAsm2,0
	11,0),iF(del1<-0.483,MAX(CArf+CAext1+CAest1+CAem1,0),0)),0)
- Akan (942 - Akan (54) - Takan (54) - Akan (54) - Akan (54) - Akan (54)	#FeatherD20.IF(abm>25.MAX(CArt+CAext1+CAext1+CAext10),IF(del1<-0.483,MAX(CArt+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+CAext1+C

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extern	=MainI844	it.	Extent	selmean 62
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BT Cracks			TAB Cracks	
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CAsset1 Secal	#F[eat21.5,5s4a1*[cei1-dei1000],0] -69.7		CAsta2 Seta2	=iF(sett>2,Seta2*(def1-de11000),0) 79,22
Extent of Settlement				
C.A.extf Sext	mif jest/>1.5,l/f(extent>30,fextent>30),fextent>=efmeem*(Sext),(I),0) 0.6164		CAextZ Sext2	= F[astD-2, F(axtant>30,[axtent-estmean]*Sext2,(J),0) 0.436
Grout Modulus				
			CAgm2 Sgm2	- F(estr>2,(gm-Egmean)*Sgm2,0) -0.0001109
Grout Strength				
No significant effect				
Soil Bulk Modulus				
CAsm1 Ssm1 Sbsm1	mif eart>1.5,fabm-Sikmmean)*(Sem1*eett>Sbem1).0) 2.16 -1.5		CAsm2 Ssm2	elf-(act>2,(abm-Sbmmean)*Sam2,0) 3.24

```
Sub Timestep()
' Timestep Macro
Macro written 6/9/2003 by SRS
 'Set parameters for Risk Iteration
 Application.Calculation = xlCalculationManual
 Initialize cells for time stepping
 Cells(26, 2) = 0.001
 timerow = 49
 CABT = 0
 CATB = 0
 'cellcnt = 61
 'Initialize Crack Area cells
 For i = 49 To 54
 For j = 8 To 10
 Cells(i, j) = 0
 Next j
 Next i
 nstep = 10000 / Cells(25, 2)
 For ii = 1 To nstep
 If (ii = 1) Then tcount = Cells(25, 2)
 Cells(26, 2) = tcount
 Cells(27, 2).Calculate
 Cells(29, 4).Calculate
 Cells (30, 4). Calculate
 dsett = Cells(30, 4)
 If (dsett > 0) Then
 Range("B33:B44").Calculate
 'Rndm = Cells(29, 4)
 locate = Cells(34, 2)
 'Eg = Cells(10, 10)
 'Stra = Cells(10, 13)
 'Ks = Cells(10, 16)
 'Extent = Cells(38, 2)
 r1 = 49 + locate - 1
 Worksheets("Static").Calculate
 Worksheets("Location 1").Calculate
 Worksheets("Location 2").Calculate
 Worksheets("Location 3").Calculate
 Worksheets("Location 4").Calculate
 Worksheets("Location 5").Calculate
 Worksheets("Location 6").Calculate
 Range("B48:C55").Calculate
 CABT = Cells(r1, 2)
 CATB = Cells(r1, 3)
 'Cells(cellcnt, 1) = tcount
 'Cells(cellcnt, 2) = Rndm
 'Cells(cellcnt, 3) = Eg
 'Cells(cellcnt, 4) = Stra
 'Cells(cellcnt, 5) = Ks
'Cells(cellcnt, 6) = dsett
'Cells(cellcnt, 7) = locate
'Cells(cellcnt, 8) = Extent
'Cells(cellcnt, 9) = CABT
 'Cells(cellcnt, 10) = CATB
 'cellcnt = cellcnt + 1
```

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	APPENDIX A	
	Saltstone Properties	
	Suitstone 1 Toperties	
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analyses of the extracts will be performed by a SCDHEC certified laboratory, GEL, Inc. Charleston, SC.

Table 2-1. Ingredients and proportions of the Tank 23-Tank 50 Saltstone Samples.

Ingredient	Mix 64	Mix 65	Mix 66	Mix 67	Mix 68	Mix 69	Mix 70
(Grams in sample/Wt.						:	
% total mix)							
Cement	40	40	40	40	80	80	80
	6.25%	6.1%	5.8%	5.7%	6.0%	6.1%	6.1%
Slag	180	180	180	180	360	360	360
_	28.13%	27.6%	26.3%	25.6%	26.9%	27.5%	27.5%
Fly Ash	180	180	180	180	360	360	360
	28.13%	27.6%	26.3%	25.6%	26.9%	27.5%	27.5%
Salt Solution Hold							110
Tank			,				8.4%
Tank 23 Solution	240	252.6	252.6	302	505.2	505.2	397
	37.5%	38.6%	36.9%	43%	37.8%	38.6%	30.4%
Tank 50 Solids			29.8		29.8	3.75	
			4.4%		2.2%	0.29%	
Daratard 17		1.4	1.5	0.7	1.5	1.5	
		0.21%	0.22%	0.1%	0.11%	0.11%	
Tank 50 Solids in							
Tank 50 - Tank 23			8		4	0.5	
Mixture (vol.%)							
PreMix (wt%)							
Cement-slag-fly ash = 10, 45, 45 wt %	62.5	61.3	58.4	56.9	59.8	61.1	61.1
Water to premix	0.570	0.599	0.599	0.717	0.599	0.599	0.601
ratio							

#### 3.0 RESULTS



Slurry processing results and compressive strength results for samples cured for 28 days are summarized in Table 3.1. Mix 64 was prepared without Daratard 17 set retarder. This sample gelled too quickly and was therefore unacceptable for processing in Z-Area. Daratard was added to Mix 65 to delay gelling. This was accomplished but the amount of set retarder in this mix was too high as indicated by the amount of standing water remaining after 3 day. The amount of Daratard set retarder was reduced in the subsequent mixes and acceptable processing properties (gel time, set time and standing water) were achieved.

Acceptable gel times are in the range of 30 to 120 minutes. Setting should occur within the first three days after mixing and acceptable formulations have zero standing water after three



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days curing in a closed container. The compressive strength after curing for 28 days must be at least 200 psi.

Table 3-1. Summary of Processing Properties.

Property		Mix 65	Mix 66	Mix 67	Mix 68	Mix 69	Mix 70
Gel Time	<5				>120	120	80
(minutes)							
Set Time (days)	1	1	1-2	1-2	<1	<l< td=""><td>&lt;1</td></l<>	<1
Standing Water		0@3	1.5 vol. %	0@3	0@3	0@3	0@3
	0 @1 day	days	@ 3 days	days	days	days	days
Compressive Strength after 28 days curing (psi)	-1	-	488	388	471	642	633

#### 4.0 CONCLUSIONS

Saltstone laboratory samples made with Tank 23 low-level waste solution containing up to 8 volume percent Tank 50 solids met the Z-Area processing and compressive strength requirements. The acceptable formulations were prepared with a premix blend of 10 wt. % cement, 45 wt. % slag, and 45 wt. % fly ash. The premix was mixed with the Tank 23, tank 23 – Tank 50 waste at a water to premix ratio of about 0.60. Due to the low salt content of the Tank 23 waste, Daratard 17, a set retarder is required to extend the gel time. A target formulation is provided in Table 4-1.

Table 4-1. Acceptable Tank 23 Solution-Tank 50 Solids Saltstone Formulation.

Ingredient (Wt. % total mix	Target Mix Tank 23 – Tank 50 Solids (wt.%)	
Premix	Cement	5.8%
Cement, Slag, Fly Ash	Slag	26.3%
10, 45,45 wt.%	Fly Ash	26.3%
Tank 23 Solution	36.9%	
Tank 50 Solids	4.4%	
Daratard 17	0.1%	
Tank 50 Solids in Tank 50	8 (0 to 8)	
PreMix (wt%)		
Cement-slag-fly ash = 10, 45, 4	58.4	
Water to premix ratio	0.60	

Classification	Rock	Description	Major Mineral Constituents
Massive Hornfels Quartzite Marble	Microfine grained Fine grained Fine to coarse grained	Quartz Quartz Calcite or dolomit	
Phyli	Slate	Microfine grained,	Clay minerals, mica
	Phyllite Schist	Soft, laminated Altered, hypobyssal rocks, coarse grained	Mica, clay minerals Feldspars, quartz, mica
	Gneiss	Altered granite	Hornblende

## TABLE 2.6 HARDNESS OF MINERALS.

Mohs'	Standard	Chemical	Field Test
Scale	Mineral	Composition	can be scratched with-
1	Talc	Mg ₃ Si ₄ O ₁₀ (OH) ₂	Finger nails—easily —with difficulty Knife—easily
2	Gypsum	CaSO ₄ · 2H ₂ O	
3	Calcite	CaCO ₃	
4	Fluorite	CaF ₂	
5 Apatite 6 Orthoclas 7 Quartz 8 Topaz	Orthoclase Quartz Topaz Corundum	Ca ₅ (PO ₄ ) ₃ (OH, F, CI) KAISi ₃ O ₈ SiO ₂ Al ₂ SiO ₄ (OH, F) ₂ Al ₂ O ₃ C	-with moderate pressure -with difficulty -no longer Gives sparks with steel

face layers have smaller crystals than the deeper ones. The higher the silica content of a magma the greater the rate of crystal growth under the same environmental conditions. The size of the individual crystals in rocks, as in metals, determines many important physical properties with an optimum effect usually at some intermediate size.

further elements (iron, calcium, sodium, potassium, and magnesium) make up about 16 percent. These elements form minerals of which more than 90 percent belong to a few groups as shown in Table 2.4. Table 2.5 gives a classification of metamorphic rock according to Farmer (1968). Table 2.6 presents the Mohs Hardness Scale for minerals together with simple field tests.

#### 1. Properties of Rocks

The mechanical properties of rocks vary significantly within the same rock type and even within the same formation. Hence, tabulated data may serve only as general indicators of the expected range of properties. The actual properties of rock in situ must be determined by appropriate tests for any major projects. For purposes of general orientation, elasticity and strength properties are given in Table 2.7 for various rock types.

Other important properties of rocks and natural rock bodies are:

- Permeability to water and effect of water on elastic and strength properties;
- Creep of rocks under high stresses, and underlying rheologic properties;
- Dynamic properties including acceptance, transmission and dispersion of seismic energy;
- Thermal and electric capacities and transmission properties;
- Response upon exposure to environmental conditions that differ physically and chemically from those of the original rock environment.

## 2. Properties and Engineering Classification of Shales

Shales predominate among the sedimentary rocks in the earth's crust; their properties vary from those of "solid" rock that must be blasted for excavation to those of soil-like materials that fall within the engineering definition of

TABLE 2.7 MECHANICAL PROPERTIES OF VARIOUS ROCKS.

				110010,		
Rock	Young's Modulus at Zero Load, 10 ⁵ kg/cm ²	Bulk Density , g/cm ³	Porosity, Percent	Compressive Strength, kg/cm ²	Tensile Strength, kg/cm ²	
Granite Microgranite Syenite Diorite	2-6 3-8 6-8	2.6-2.7	0.5-1.5	1000-2500	70-250	
Dolerite Gabbro Basalt Sandstone Shale Mudstone Limestone Dolomite Coal Quartzite Gneiss Marble Glate	7-10 8-11 7-11 6-10 0.5-8 1-3.5 2-5 1-8 4-8.4 1-2	3.0-3.05 3.0-3.1 2.8-2.9 2.0-2.6 2.0-2.4 2.2-2.6 2.5-2.6 2.65 2.9-3.0 2.6-2.7 2.6-2.7	0.1-0.5 0.1-0.2 0.1-1.0 5-25 10-30 5-20 1-5 0.1-0.5 0.5-1.5 0.5-2 0.1-0.5	1800-3000 2000-3500 1000-3000 1500-3000 200-1700 100-1000 300-3500 800-2500 50-500 1500-3000 500-2000 1000-2500	150-300 150-350 150-300 100-300 40-250 20-100 50-250 150-250 20-50 100-300 50-200 70-200 70-200	

Note: (1) For the igneous rocks listed above Poisson's ratio is approximately 0.25, (2) For a certain rock type, the strength normally increases with increase in density and increase in Young's modulus. (After Farmer, 1968.)

Fic = 500 ps.

Fic = 500 ps.

VI = 5 kglom²

E = 1. E5 kglom²

2.048 E5 k/ft²

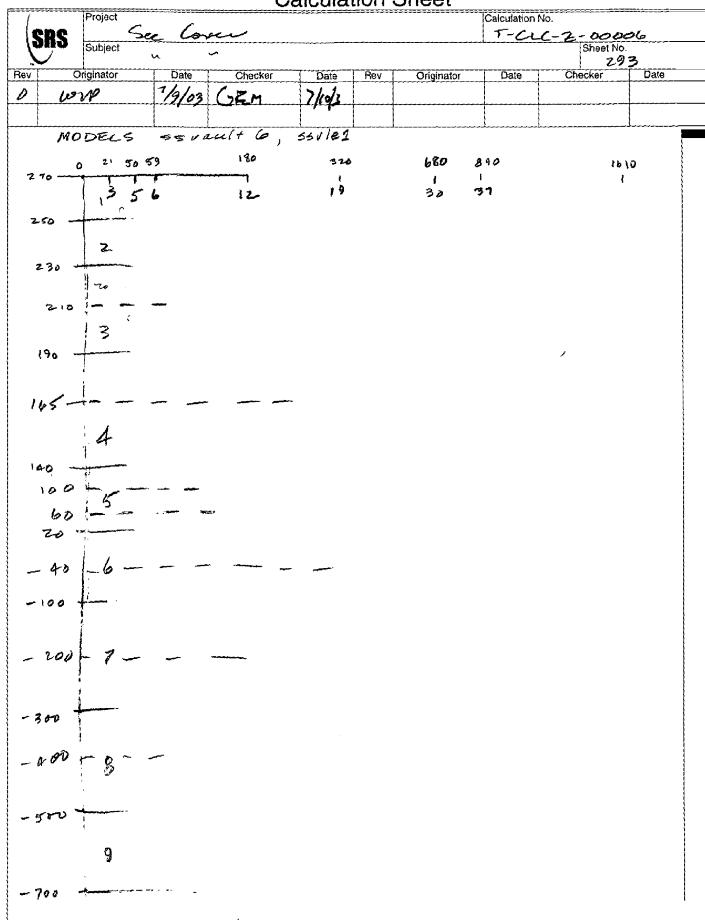
## Calculation Continuation Sheet

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## Calculation Sheet

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## Calculation Sheet



Site Geotechnical Services

WSRC-TR-00072, Rev. 0

Geotechnical Seismic Assessment Report for Defense Waste Processing Facility (DWPF), (U)

February, 1995

foundation explorations. In descending order, they are: Hawthorne, Barnwell, McBean, Congaree, and Ellenton Formations. New nomenclature has evolved for the various strata and are presented in Figure 2. Table 1 illustrates the relative positions of these strata at the DWPF site.

Table 1. Sedimentary Stratigraphy at the DWPF Site Based on Subsurface Exploration (Mueser, 1984a).

Stratum - old nomenclature (new nomenclature)	Soil Designation	Stratum Thickness (ft)	Stratum Elevation Range (ft, msl)	Geologic Soil Characterization
Hawthorne Formation (Altamaha Fm also Upland Unit)	S1	0+	surficial unit above 275 ±	poorly sorted, sandy with frequent lenses of gravel, pebbly sand; and oxidized, massive clay.
Barnwell Formation (Tobacco Road Fm., Irwinton Sand Mbr., Tan Clay Mbr.)	S2a S2b	80 ±	275 to 195	interbedded, clayey sand and sand with thin layers and lenses of clay or silt.
Undifferentiated (Tan Clay Mbr included above)	C2	5 to 20	215 to 195	stiff, silty clay.
McBean Formation (Tinker Fm. and Santee Limestone)	S3a S3b S3c	70	195 ± to 125 ±	alternating layers of sand, some clay and sand with trace clay or silt; discontinuous calcareous sand in lower strata.
Undifferentiated (Green Clay)	MI	10 ±	140 to 130	discontinuous, compact silt.
Congaree Formation (same)	S4	100 ±	125 to 30	continuous, dense sand and silty sand.
Ellenton Formation				dense, sandy to clayey silt with some silty sand.

#### 2.2 Geotechnical Characteristics of Soil at DWPF

SPT N-value profiles were prepared by D'Appolonia (1982a) for boreholes near the major facilities. The location of the borehole groups is shown in Figure 3 and the average  $\pm$  1 standard deviation profiles are given in Figure 4. Shear and compressional wave velocities for the DWPF soil profile are shown in Figure 5. Also, grain size distributions for soils in the Barnwell, McBean, Congaree, and Ellenton Formations are given in Figure 6. The geotechnical engineering characterization of the soils is given in Table 2.

Site Geotechnical Services

Geotechnical Seismic Assessment Report for Defense Waste Processing Facility (DWPF), (U)

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Table 2. Geotechnical Engineering Characterization of Soil Strata at the DWPF Site (D'Appolonia, 1982a; Mueser, 1984a).

Soil Designation	Soil Description	Water Content (range, %)	SPT N-Value (bpf)
S1	Clayey Sand, trace Gravel; or Sand, some Clay; organic Silt (see notes).	15 to 25	10 to 50 [20] (see notes)
S2a	Sand, trace Silt and Gravel; occasional Clay lenses.	12 to 26 [22]	4 to 50 (see notes)
S2b	Sand, trace Clay, occasional Silty Clay lenses.	15 to 28 [22]	8 to 45 (see notes)
C2	stiff, Silty Clay to Clayey Silt, trace Sand.	[53]	9 to 27
S3a	Sand, some Clay, trace shell fragments.	20 to 30 [23] U 25 to 35 [30] M,L (see notes)	10 to 40 U 10 to 60 M,L (see notes)
S3b	Sand, Trace Clay and Silt.	20 to 30 [25]	15 to > 100 [35]
S3c	Sand, some Silt, trace Clay	22 to 28 [25]	12 to 110 [40]

Notes: average values, where available, are given in [brackets].

Stratum S1: organic Silt forms up to 20 ft thick lenses in depressions at ground surface. SPT N-values occasionally as low as 10 bpf in upper 5 ft of soil and as high as 50 bpf throughout possibly due to gravel.

Stratum S2a: typical SPT N-values range from 20 to 25 bpf. Five percent of N-values are below 10 bpf, but no loose, continuous layers were encountered.

Stratum S2b: seven percent of N-values below 8 bpf with continuous loose layer at about elevation 220 ft.

Stratum S3a: U, M, L denotes upper, middle, and lower portions of strata S3a, respectively. Isolated occurrences of SPT N-values as low as 2 bpf.

#### 3.0 STRUCTURAL FAULTS AND SEISMICITY

#### 3.1 Faulting at SRS

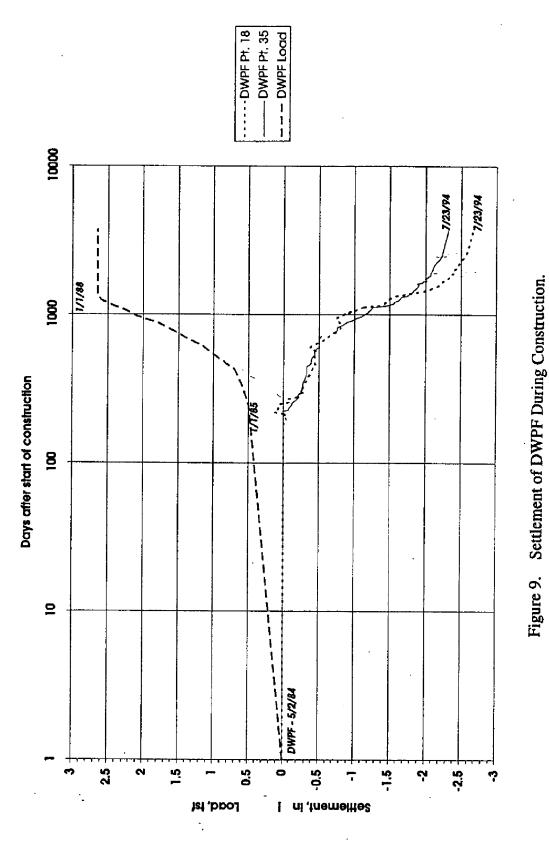
Subsurface mapping and seismic reflection surveys performed from 1988 to 1989 at SRS indicate a fault that displaces Cretaceous through Tertiary sediments with about 30 to 100 ft of vertical offset (WSRC, 1994a) (Figure 7). This fault, interpreted as a Cretaceous/Tertiary reactivation of earlier Mesozoic faulting, has been named the Pen Branch fault. The fault trends northwest across the site and closely parallels the fault that forms the northern boundary of the Dunbarton Basin. Based on deformation and sediment age, the fault is not capable (WSRC, 1994a).

Shallow faulting has been observed in the central area of SRS (F, H, and E-Areas). Current knowledge suggests these features are restricted generally to the Santee Formation and overlying sediments and generally do not extend with depth to basement (WSRC, 1994b). Based on profiles constructed from drilling and geophysical data, no capable faults were identified in the Cenozoic sediments at, or near, DWPF (duPont, 1982). Seismic reflection surveys indicate older faults with a maximum of about 50 ft of offset at the top of basement rock about 800 to 980 ft beneath the ground surface. However, reflecting horizons of Cretaceous age, and younger, are not displaced by these faults, which places a minimum age of about 80 to 85 million years before present (mybp) for these features (duPont, 1982).

WSRC-TR-00072, Rev. 0 February, 1995

Site Geotechnical Services
Geotechnical Seismic Assessment Report for Defense Waste Processing Facility (DWPF), (U)

Settlement Pattern Comparison



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#### Purpose

The purpose of this calculation is to provide a "best estimate" strain compatible soil profile for areas at the Savannah River Site having a soil column thickness between 800 and 1000 feet overlying crystaline bedrock. The best estimate profile includes shear wave velocities, damping ratios, Poisson's ratio and unit weights. The shear wave velocities and damping ratios are strain compatible values consistent with the Charleston event (50th percentile) developed by Lee et al., 1997. The Accelerator Production of Tritium (APT) site falls into the 800-1000 feet soil column thickness range over crystaline bedrock.

#### Calculation Approach and Input

#### Strain Compatible Shear Wave Velocity and Damping Ratio

In March of 1997 the Site Geotechnical Services Department (SGS) issued "SRS Seismic Response Analysis and Design Basis Guidelines" (Lee et al., 1997). Work for this report involved review of existing geotechnical data and development of models representing the range of conditions expected at the SRS. The SRS was subdivided into areas based on the soil column thickness and bedrock type and a probabilistic model was developed and used to generate 30 soil profiles consistent with the SRS geotechnical data (Toro, 1997). This work is documented in reports and calculations (Lee et al., 1997; Toro, 1997; WSRC, 1997a,b,c,d).

For this calculation the 30 soil profiles representing soil column thickness between 800 and 1000 feet overlying crystaline bedrock were used. Specifically the strain compatible shear wave velocities and damping ratios from the median Charleston earthquake ( $M_w$  7.3 and  $\Delta\sigma=150$  bar) (WSRC, 1997d) were used. The results from these computer runs are averaged to get mean and log-mean strain compatible shear wave velocities and damping ratios consistent with the Charleston event. The data sets from the Charleston event come from the computer files listed in Table 1 and documented in WSRC, 1997d.

#### Poisson's Ratio

The "best estimate" Poisson's ratio is from shear/compression wave measurements. Poisson's ratio is calculated for each shear/compression wave set using Equation 1.

$$\mu = \frac{\left(V_p^2 - 2 \cdot V_s^2\right)}{\left(2 \cdot V_p^2 - 2 \cdot V_s^2\right)}$$
 (Eq. 1)

where:  $\mu$  is Poisson's ratio

 $V_P$  is compression wave velocity

 $V_s$  is shear wave velocity

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The shear/compression wave sets were measured at deep boreholes CFD-1, CFD-18, GCB-1, GCB-2, GCB-4, GCB-5, GCB-7, MMP-2A-SB, MMP-3-SB, and MMP-4-SB (Agbabian, 1992a,b; 1994; 1996a,b; 1997). The Poisson's ratio from the individual borings is plotted on Figure 1. The "best estimate" Poisson's ratio is based on Figure 1 and visual fitting of the data plotted.

#### **Unit Weight**

The "best estimate" unit weight is from geophysical bulk density logs recorded in deep borings at SRS. The bulk density logs were made using gamma-gamma cross sectional measurements, where the back scatter from the source is measured for discrete intervals. The density logging was performed at boreholes GCB-1, GCB-2, GCB-4, GCB-5, GCB-7, MMP-2A-SB, MMP-3-SB, MMP-4-SB, SSW-1, SSW-2, and SSW-3 (WSRC, 1998). Data from the individual bulk density logs is plotted on Figure 2. The "best estimate" unit weight is based on Figure 2 and visual fitting of the data plotted.

#### **Computations and Results**

#### Strain Compatible Shear Wave Velocity and Damping Ratio

Extracting the data from the RASCALS output files and the averaging was performed using a FORTRAN program VSDSTAT. The code for VSDSTAT is presented in Attachment A. The program VSDSTAT locates the strain compatible properties (i.e., shear wave velocity and damping ratio) in the RASCALS output file and computes the average for each layer assuming both a normal and log-normal distribution. Five VSDSTAT runs were performed, one for each of the source depth dependent Charleston ( $M_w$  7.3 and  $\Delta \sigma = 150$  bar) data sets. The five data sets represent five earthquake source depths. Output files from the five VSDSTAT runs are presented in Attachment B. The averages from the five VSDSTAT runs are then copied into an EXCEL spreadsheet, weighted based on the depth distribution of seismicity in the southeastern U.S. (Lee et al., 1997), and the weighted average is computed. The five source depths and their weights are:

Depth	
(km)	Weight
4	0.1
10	0.3
15	0.2
20	0.2
25	0.2

The top depth for each layer and layer thickness are also given in the RASCALS output files. The top depth and layer thickness for each layer were copied to an EXCEL spreadsheet, the mid-layer depth was then calculated from the average layer top depths. Table 2 presents the top depths extracted from the RASCALS files and their averages. Table 3 presents the thickness of the layers from the RASCALS files and their averages.

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Figures 3 and 4 present the Charleston 50th percentile strain compatible shear wave velocities from each of the five VSDSTST runs and the weighted average. Figure 3 assumes normal distribution and Figure 4 assumes log-normal distribution. Figures 5 and 6 present the Charleston 50th percentile strain compatible damping ratios from each of the five VSDSTST runs and the weighted average. Figure 5 assumes normal distribution and Figure 6 assumes log-normal distribution. Tables 4 and 5 contain the data plotted in Figures 3 and 4 and Tables 6 and 7 contain the data plotted in Figures 5 and 6.

#### Poisson's Ratio

The Poisson's ratio from the individual borings logs is plotted on Figure 1. Based on Figure 1 and literature values presented in Table 8, the "best estimate" Poisson's ratio is 0.3 above the water table. Below the water table Poisson's ratio can be described by Equations 2 and 3.

$$\mu = -\left(\frac{0.07}{550}\right)h + 0.49$$
 Water Table to 550 feet (Eq. 2)

$$\mu = -\left(\frac{0.02}{550}\right) h + 0.44$$
 550 feet and deeper (Eq. 3)

Where h is depth in feet, and  $\mu$  is Poisson's ratio.

#### **Unit Weight**

Data from the individual bulk density logs is plotted on Figure 2. Based on Figure 2, the "best estimate" soil unit weight ( $\gamma_{institu}$ ) as a function of depth described by Equation 4.

$$\gamma_{insitu} = 0.0131 \text{ x h} + 120$$
 Soils only – not rock (Eq. 4)

Where h is depth in feet, and

 $\gamma_{insitu}$  is insitu unit weight in pounds per cubic foot.

#### Assumptions

The relationships (Equations 2, 3 and 4) developed for Poisson's ratio and unit weight were visually fit. Variation from the visually fit relationships is expected. An estimated standard deviation for Poisson's ratio is approximately 0.03. An estimated standard deviation for the unit weight is 8 pounds per cubic foot.

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Poisson's ratio determined in this calculation is a low-strain property. The shear wave velocities presented in Tables 4 and 5 and Figures 3 and 4 are strained values for the Charleston  $50^{th}$  percentile event. It is assumed that the low-strain Poisson's ratio can be used in conjunction with the Charleston  $50^{th}$  percentile shear wave values and equation 1 to determine Charleston  $50^{th}$  percentile strain compatible compression wave velocities.

The Shear wave velocity and damping data are assumed to be log-normally distributed and consequently the log-normal averages are considered the "best estimate". This assumption was checked by W-testing (Gilbert 1987) many of the data sets (a data set being the data for a given layer and earthquake source depth). Approximately 40 percent of the layers were tested at the alpha = 0.10 significance level. At the alpha = 0.10 significance level the null hypothesis (i.e., the data has a normal distribution) was accepted for 14 percent of the data sets and the null hypothesis was accepted for 89 percent of the log transformed data sets. Based on the W-testing the data are more likely log-normally distributed as opposed to normally distributed.

#### Conclusions

The purpose of this calculation is to provide a "best estimate" strain compatible soil profile for areas at the Savannah River Site having a soil column thickness between 800 and 1000 feet overlying crystaline bedrock. This includes strain compatible shear wave velocities and strain compatible damping ratios consistent with the Charleston event (50th percentile) developed by Lee et al., 1997. Also included are low-strain Poisson's ratio and unit weights. These properties are summarized in Table 9.

The recommended low-strain Poisson's ratio is 0.3 above the water table and 0.47 beneath the water table (see Table 9 footnotes). These values are reasonable for most problems where the upper soil profile (depth less than 200 feet) is of concern. These values compare well with other values used for previous work at SRS (WSRC 1991, 1995, 1996). If the model is sensitive to Poisson's ratio or unit weight, Equations 2, 3, and 4 can be used. However, parametric runs should be performed as variation from the visually fit relationships is expected.

The shear wave velocities presented in Table 9 and damping ratios are strained values for the Charleston 50th percentile event. It is assumed that the low-strain Poisson's ratio can be used in conjunction with the Table 9 shear wave values and Equation 1 to determine Charleston 50th percentile strain compatible compression wave velocities.

In this calculation, statistics for the strain compatible shear wave velocities and damping ratios were calculated assuming both normal and log-normal distributions. Based on W-testing the data appear to be log-normally distributed and the log-normal values are the recommended "best estimate". Table 9 presents the strain compatible shear wave velocities and damping ratios assuming log-normal distribution.

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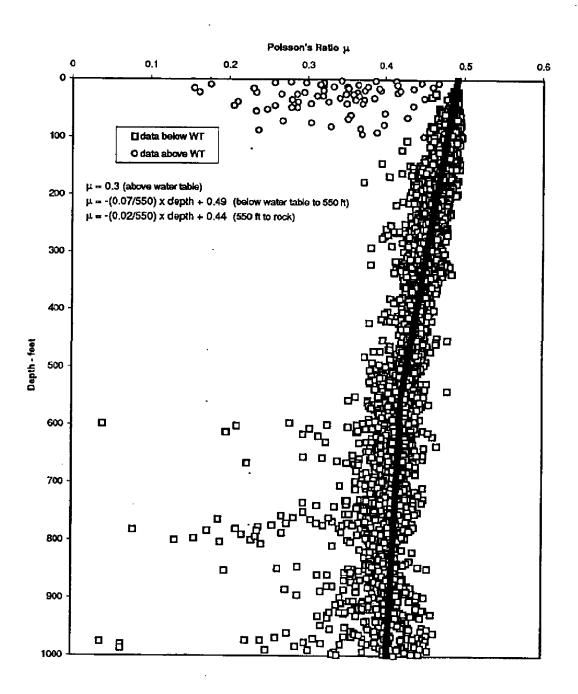
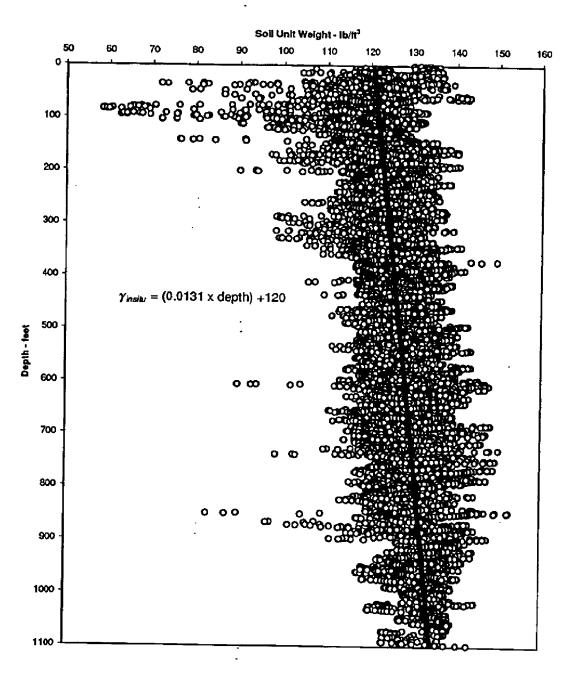


Figure 1. Poisson's Ratio Data for SRS Soils versus Depth and Visual Fit Relationships

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Figure 2. Insitu Unit Weight versus Depth for SRS Soils and Visual Fit Relationships

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Rev.	

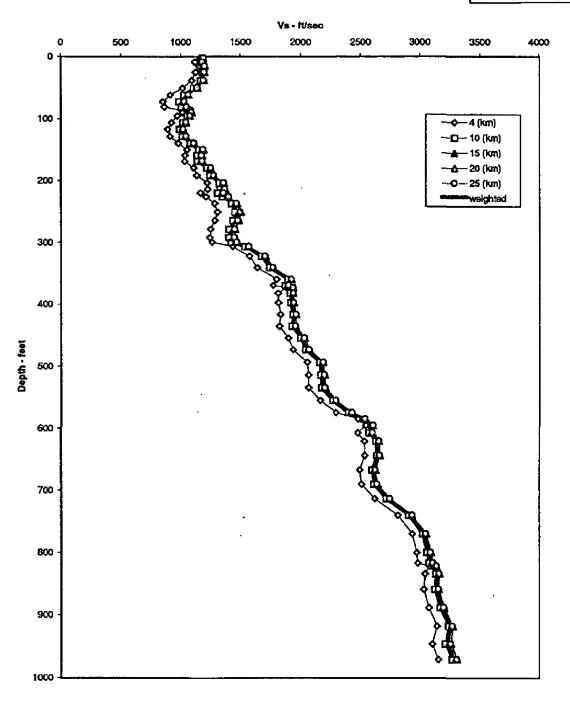
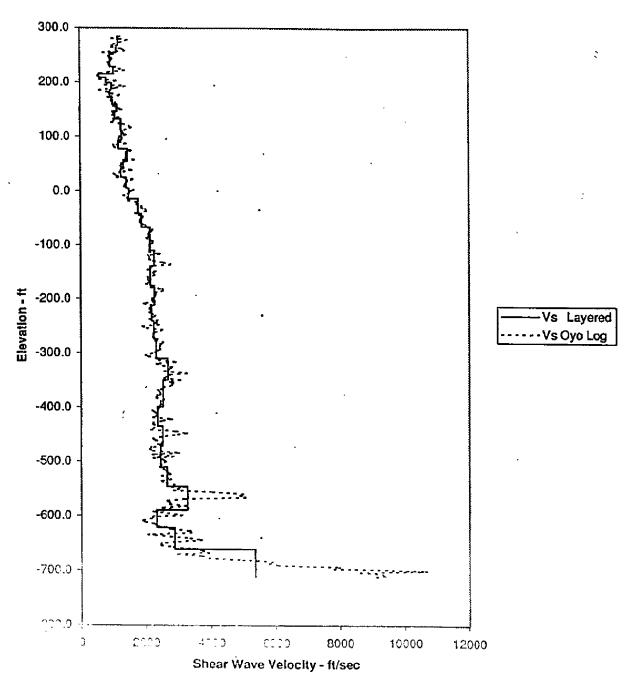


Figure 3. Charleston Source Depth Dependent Strain Compatible Shear Wave Velocity Averages (normal distribution) from VSDSTST Runs and the Weighted Average

### Shear Wave Velocities for Deep Boring MMP-2A-SB

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Mmp-2sb.xls

Figure 8. Oyo Shear-wave Velocity Logger Survey of Borehole MMP-2A-SB Results and the LAYERSH Filter Interpretation (from Agbabian Associates, 1994 and WSRC, 1996b)

## Calculation Sheet

26x, 25250	Project	Lee Co	A				Calculation N	4-3-00	
SAVANNA Rev	Subject  Originator	لد ر Date	Checker	Date	Rev	Originator	Date	Sheet No Checker	). 30 <b>5</b> Date
Ø	wap	7/9/02	GEM	7/10/3					

DWPF MONUMENTS K-ESR-5-00002

dis from center

monument	dia,	mouncet	dia
10	21 ft.	5	38 ft.
15	26	28	45
li	59	4	44
16	67	25	99
31	113.5	26	176
14	180	L B	190

Bulding is 117-0" x 361'-6"

Savannah River Site Settlement of Defense Waste Processing Facility Vitrification Building (U)

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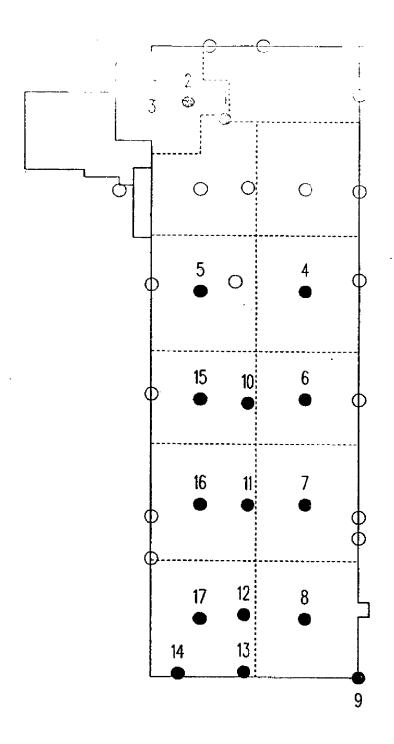
## Table 2 Monument Coordinates

No.	North	East
1	<b>74,045.2</b> 5	64,616.35
2	74,055.00	0.5.05
3	74,065.00	64,576.00
4	73,946.25	64,662.00
5	73,946.25	64,603.00
6	73,884.25	64,662.00
7	73,824.00	64,662.00
8	73,758.75	64,662.00
9	73,725.50	64,693.00
10	73,882.00	64,629.50
11	73,823.75	64,629.50
12	73,761.00	64,627.50
13	73,728.50	64,627.50
14	73,727.50	64,591.00
15	73,884.25	64,603.00
16	73,824.00	64,603.00
17	73,758.75	64,603.00
18	74,084.00	64,693.00
19	74,059.00	64,693.00
20	74,004.00	64,693.00
21	73,953.00	64,693.00
22	73,884.00	64,693.00
23	73,817.00	64,693.00
24	73,805.00	64,693.00
25	74,005.00	64,662.00
26	74,087.00	64,638.00
27	74,005.75	64,629.50
28	73,951.75	64,622.50
29	74,087.00	64,608.00
31	74,005.00	64,603.00
33	74,004.00	64,558.00
34	73,950.00	64,576.00
35	73,887.00	64,576.00
36	73,817.00	64,576.00
37	73,793.00	64,576.00

Savannah River Site Settlement of Defense Waste Processing Facility Vitrification Building (U)

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Figure 4 Locations of heave/settlement monuments during Stage A



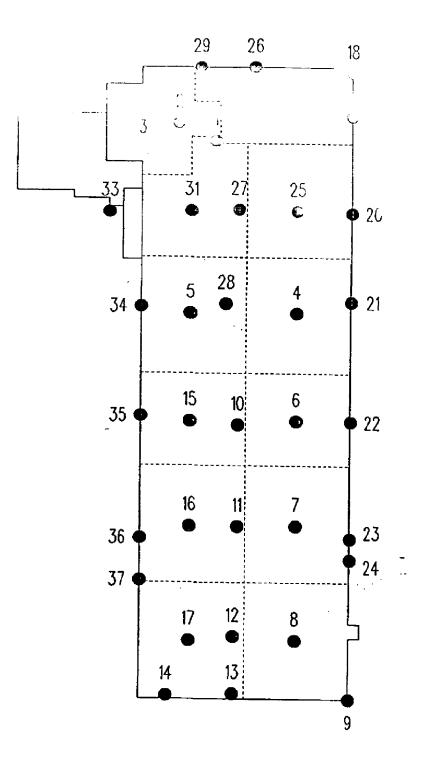


Figure 5 Locations of settlement monuments during Stage  ${\tt B}$ 

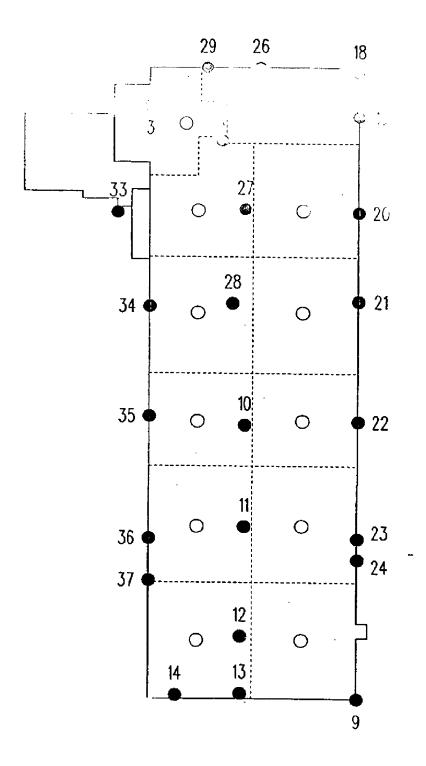


Figure 6 Locations of settlement monuments during Stage

Savannah River Site
Settlement of Defense Waste Processing Facility
Vitrification Building (U)

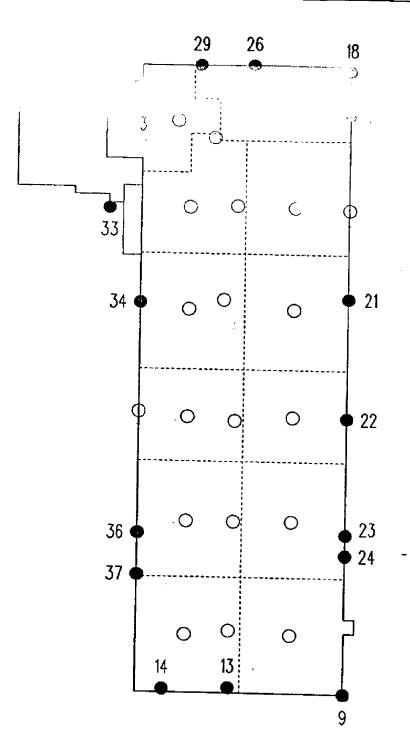
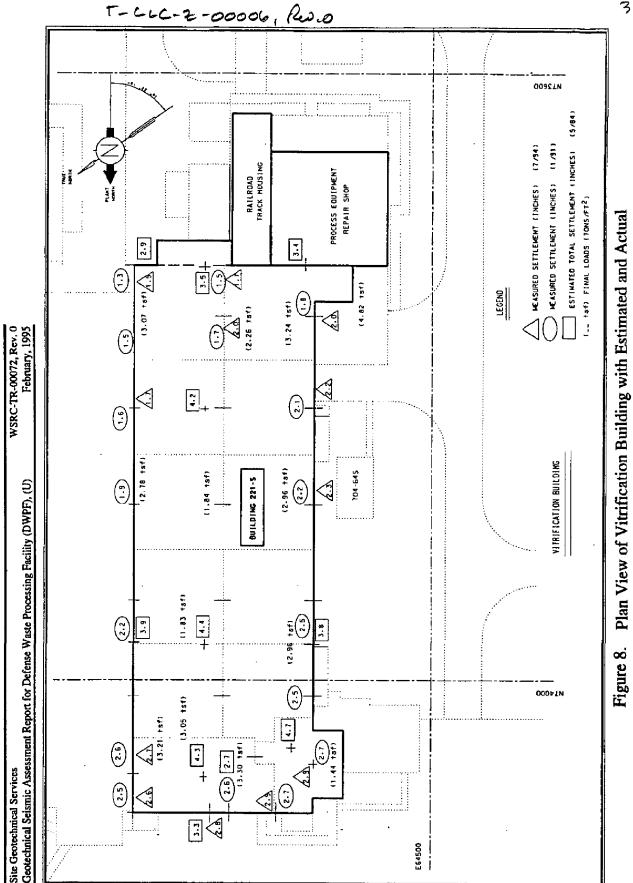


Figure 7 Locations of settlement monuments during Stage L

Settlements.



	Day	Monument	Transferred	Elevation	0-11
Date	since	eievation	elevation		Settlement
1	May 1, 1984	(feet MSL)	(feet MSL)	difference	(lasks)
	11	Monumen:		(fect)	(Inches)
May 1, 1984	- 11	267,208	· Onte	· · · · · · · · · · · · · · · · · · ·	0.00
May 17, 1984	17	267,224			0.00
May 25, 1984	25	267,234			0.19
May 31, 1984	31	267,229	270,591	3,162	0.25
June 1, 1984	32	270.583	0,000	0.702	0.16
Juna 8, 1934	39	270.383			0.16
June 16, 1984	47	270.386			0.19
June 22, 1984	53	270.382			0.13
June 29, 1984	60	270.384			0.17
July 6, 1984	67	270.383			0.15
July 13, 1984	74	270.382			0.14
July 20, 1984	81	270.384			0.17
July 27, 1984	88	270,380			0.12
August 2, 1984	94	270.383			0.16
August 10, 1984	102	270,385	<del></del>		0.18
August 17, 1984	109	270,331			0.13
August 27, 1984	i 19	270.395	1		0.18
August 31, 1984	123	270.385	1		C.19
September 7, 1984	130	270.377	i		0.68
September 14, 1984	137	270.368			-0.02
September 21, 1984	144	270.376			0.07
September 28, 1984	151	270,373			0.04
October 1, 1984	154]	270,368	281.409	11.103	-0.05
October 3, 1984	156	281.478			C.06
October 5, 1984	153	281.464			-0.11
October 12, 1984	165	281.468			-0.06
October 18, 1984	171	281.467			-0.07
October 26, 1984	179	281.462			-0.13
November 2, 1984	186	281.458			-0.18
i ovember 7, 1984	191	281.462			-0.13
November 20, 1984	204	281.453			-0.24
	210	281.454			-0.23
November 20, 1984	214	281.445]			-0.34
December 14, 1984	221	281,448			-0,30
Uecamber 28, 1984	228	281,446			-0.32
January 4, 1985	242	281.443	!		-0.36
January 11, 1985	249 256	261.443			-0.36
January 18, 1985		281.445			-0.34
January 25, 1985	263 270	281.443	281,412	-0.0311	-0.38
February 1, 1985	270	281.408			-0.41
February 8, 1985	284	281.408			-0.41
February 15, 1985	291	281,409			-0.40
February 22, 1985	291	281.407			-0.42
March 1, 1985	298 305	281.406			-0.43
March 8, 1985		281.411			-0.37
MEEGI 0, 1965	312	281.410			-0.38

T-CLC-2-00006, (20.0 Savannah River Site

Settlement of Defense Waste Processing Facility Virtrification Building (U)

	Day	Monument	rransferred	Elevation	Settlement
Date	since	elevation	Glavation	difference	
	May 1, 1984	(ieet MSL)	(feet MSL)	(feet)	(inches)
11		Monument	Point 5		
May 1, 1984)	11	266.929			0.0
May 17, 1984	17	266.848			0.2
May 25, 1984	25)	266.554			0.3
May 31, 1994	31)	265,949	270,378	3.429	0.2
June 1, 1984	32	270,368			0.12
June 8, 1954	39	270.372			0.1
June 16, 1984	471	270,373			0.18
June 22, 1984	53	270,367			0.1
June 29, 1984	60	270.370			0.14
July 6, 1984	67	270.368			0.12
July 13, 1984	74	270.366	i		0.10
July 20, 1984	81	270.366			0.10
July 27, 1984	88	270,367			0.11
August 2, 1984	94	270,567			0.13
August 10, 1984	102	270.369			0.13
August 17, 1984	109	270.300			0.09
August 27, 1984	119	270,358			0.13
August 31, 1984	123	270.366		)	0.11
September 7, 1934	130	270.352)			0,0
September 14, 1984	137	270,355			-0.02
September 21, 1984	144	270,359			9,01
September 26, 1984	151	276,358			-0.07
October 1, 1964	154	270,347			-0.13
October 3, 1984	166	270,375			0.20
October 5, 1964	158	270,349			-0.1
October 12, 1984	165	270.350			0.0
October 18, 1984	171	270,388			0.00
October 26, 1984	179	270,354			-0.0
November 2, 1984	186	270,358			-0.02
November 7, 1984	191	270,354			-0,05
!\cvember 15, 1934	196	270.854	281.163	10.809	-0.05
November 20, 1984	204	281.159			-0.10
November 26, 1984	210	281.1961			-0.01
November 30, 1994	214	281.131	i		0.18
December 7, 1984	221	281.141)			-0.31
December 14, 1984	228	281.143			-0,23
December 28, 1984	242	281.147			-0.24
January 4, 1385	249	281.157			-0,24
lanuary 11, 1985	256	281.145			-0.26
January 18, 1985	283	281.142	230.811	-0.331	-2.30
January 25, 1985	270	280,606			-0.36
February 1, 1935	277	280.857	· i		-0.3
February 8, 1985)	284	230.607			-0.3
February 15, 1985	291	280.805			-0.37
February 22, 1985	298	280,803			-0.40
March 1, 1985	305	280,609	·		-0.32

Savannah River Site
Settlement of Defense Waste Processing Facility
Virtrification Building (U)

Date	Day	Monument	Transferred	Elevation	Settlement
vale	since May 1, 1984	elevation (feet MSL)	elevation (feet LICL)	difference	
	may 1, 1504	Monument	(feet MSL)	(feet)	(Inches)
May 1, 1984	11	267.900	r Calle 10		
May 17, 1964	17	267.943			0.0
May 25, 1984	25	267,945			0.9
May 31, 1984	311	267,941	270,370	2,429	0.4
June 1, 1984	32	270.367	2.0.0.0	2.423	0.4
June 6, 1984	39	270,362		<del></del>	0.4
June 16, 1984.	471	270.367		<del></del>	0.4
June 22, 1984	53	270.364			0.7
June 29, 1984	60	270.368			0.4
July 6, 1984	671	270,367			0,4
July 13, 1984	74	270.366			0,
July 20, 1984	81	270.366			0.4
July 27, 1984	88	270,367			0.4
August 2, 1984	94	270,361			0.9
August 10, 1984	102	270,367			0.4
August 17, 1984 August 27, 1984	109	270.365			0.4
August 31, 1984	119	270.364			0.4
September 7, 1984	123	270.361			0.3
September 14, 1984	130 137	270.354			0.3
September 21, 1984	1441	270,347			0,2
September 28, 1984	1511	270.360 270.354			0.3
October 1, 1984	154	270,354			0.3
October 3, 1984	156	270.378			0.3
October 5, 1984	158	270.354			0.5
October 12, 1984	165	270,364			0.3
October 18, 1984	171	270,368	<del></del>		0.4
October 26, 1984	179	270,363			0.4
November 2, 1984	186	270,362	<del></del>		0.4
November 7, 1984	191	270,359			0.4
November 19, 1984	203	270.347	278.839	3,492	0.2
November 20, 1984	204	276.832	2,70,000	0.402	0.2
November 21, 1984	205	278,832		·	0,1
November 50, 1984	214	278,828		<del></del>	0.0
Decomber 7, 1984	221	278.827		<del></del>	0.0
December 14, 1984	228	278.828			0.0
December 28, 1984	242	278.821		·	0.0
January 4, 1985	249	278.822			0.0
January 11, 1985	256	278.816			-0.0
January 18, 1985	263	270,813			-0.1
January 25, 1985	270	278.810	278.356	-0.454	-0.1
February 1, 1985	277	278.358			-0.1
February 8, 1985	284	278.354			-0.1
February 15, 1985	231	278,353			-0.1
February 22, 1985 March 1, 1985	298	278.352		T	-0.1
March 8, 1985	305	278.357			-0.1
April 5, 1985	312	278,356			-0.1
May 8, 1985	340	278,359			-0.10
June 6, 1985	373	278.355	0300 0011		-0.1
	404 429	278.356	278.395	0.039	-0.1
		278,382	281.754	3.372	-0.2
July 3, 1985		004 774			
July 3, 1985 July 19, 1985	445	281.754			
July 3, 1985 July 19, 1985 July 29, 1985	445 455	281.753			-0,30
July 3, 1985 July 19, 1985 July 29, 1985 August 12, 1985	445 455 469	281.753 281.750			-0,30 -0.34
July 3, 1985 July 19, 1985 July 29, 1985	445 455	281.753			-0.29 -0.30 -0.30 -0.30 -0.30

Savannah River Site
Settlement of Defense Waste Processing Facility
Virtrification Building (U)

Date	Day since	Monument elevation	Transferred elevation	Elevation	Settement
L	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(Inches)
		Monument Point	10 (continued)	(1991)	(Inches)
December 23, 1985	602	281,737	10 (000071000)		0.40
January 28, 1986	638	281,733			-0.49 -0.54
March 19, 1986	688	281.730			-0.54 -0.58
April 18, 1986	718	281,730			
May 21, 1986	751	281,724			-0.58
June 19, 1986	760	281,723			-0.65
July 25, 1986	816	281,7221			-0.66
August 26, 1986	848	231,723			-0.67
October 2, 1986	885	281,709			-0.66
October 28, 1986	911	281.702			-0.83 -0.91
December 5, 1986	949	281,694			
December 22, 1986	966	261.687			-1.01
February 5, 1987	1,011	281.686			-1.09
February 23, 1987	1,029	281.685			-1.10 -1.12
March 24, 1987	1,058	281.684			-1.12
May 26, 1987	1,121	281.682			-1.15
June 26, 1987	1,152	261.669			-1.15
July 27, 1987	1,163	281.665	<del></del>		-1.36
August 28, 1987	1,215	281.662			-1,39
September 28, 1987	1,246	281.657			-1,39
October 29, 1987	1,277	281.657	285,025	3,368	-1.45
November 25, 1987	1,304	285.021		- 0,000	-1.50
December 28, 1987	1,337	285.019			-1.52
March 31, 1988	1,431	285.013			-1.60
April 22, 1988	1,453	285.010			-1.63
May 23, 1988	1,484	285.013			-1.60
June 30, 1988	1,522	285.010			-1.63
August 1, 1988	1,554	285.010			-1.63
August 29, 1988	1,582	285.009			-1.64
September 29, 1988	1,613	285,009			-1.64
October 28, 1988	1,642	285.003			-1,72
November 28, 1988 December 9, 1988	1,673	284.999			-1.76
	1,684	284.996			-1.80
January 9, 1989	1,715	284.998			-1.78
February 9, 1989	1,746	284,995			-1.81
March 9, 1989	1,774	284.997			-1.79
April 9, 1989	1,805	284.994			-1.82
May 9, 1989	1,835	284,997			-1.79
June 9, 1989	1,866	284,997		<del></del>	-1.79
July 9, 1989	1,896	284.995			-1.81
October 9, 1989	1,988	284.994			-1.82
January 17, 1990	2,038	234.989			-1.88
April 9, 1990	2,1701	284.986			-1,92

+- CLC-2-00000, Rev -0 Scalement of Defense Waste Processing Facility Virtrification Building (U)

Deta	Day	InemuneM	Transferred	Elevation	Settlement
Date	since May 1, 1984	elevation	elevation	difference	
· <u> </u>	May,1, 1984	(feet MSL) Monument	(feet MSL)	(feet)	(Inches)
May 1, 1984	11	267,219	rontit		
May 17, 1964	17	267.236			0.00
May 25, 1984	25	267.238	<del></del>		0.23
May 31, 1984	31	267.239	270.453	3.214	0.24
June 1, 1984	32	270.454			0.2
Juno 8, 1984	39	270.441			0.10
June 16, 1934	47	270.449			0,19
June 22, 1984	53	270.444			0.13
June 29, 1984 July 6, 1984	60	270.447			0.1
July 13, 1984	67 74	270.448 270.444			0.1
July 20, 1984	81	270.446			0.13
July 27, 1984	88	270.448			0,10
August 2, 1984	94	270,449			0.18
August 10, 1984	102	270.445			0.14
August 17, 1984	109	270.438	<del></del> -	·	0.06
August 27, 1984	119	270.443			0.12
August 31, 1984	123	270.435			0.02
September 7, 1984 September 14, 1984	130	270.440			0.08
September 21, 1984	137 144	270.440	278.671	8.231	30.0
September 28, 1984	151	278.664 278.651	—— <u> </u>		0.00
October 1, 1984	154	278.659			-0.16
October 5, 1984	158	278,656			-0.06
October 12, 1984	165	278,664	<del></del>		-0.10 0.00
October 18, 1984	171	278.664		·	0.00
October 24, 1984	177	278,653	<del></del> i		-0.13
October 26, 1984	179	278.657			-0.08
November 2, 1984	186	278.658			-0.07
November 7, 1984 November 20, 1984	191	278.653			-0.13
November 26, 1984	204	278.655			-0.11
November 30, 1984	214	278.656 276.637			-0.10
December 7, 1984	221	278.639			-0.32
December 14, 1984	228	278.641	<del></del>		-0.30
December 28, 1984	242	278.632	<del></del>		-0.28 -0.38
January 4, 1985	249	278,635		·	-0.35
January 11, 1985	256	278,632			-0.38
January 18, 1985	263	278.631			-0.40
January 25, 1985	270	278.627	278.385	-0.242	-0.44
February 1, 1985 February 8, 1985	277	278.389			-0.40
February 15, 1985	284	278.385			-0.44
February 22, 1985	291 298	278.385			-0.44
March 1, 1985	305	278.384			-0.46
March 8, 1985	312	278.389 278.388			-0.40
April 5, 1985	340	278.333			-0.41
May 8, 1985	373	278.387			-0.40
June 8, 1985	404	278.387	278,388	0.001	-0.42 -0.42
July 3, 1985	429	278.386	281,631	3,245	-0,44
July 19, 1985	445	281.632			-0.43
July 29, 1985	455	281.630			-0.46
August 12, 1985	469	281.629			-0.47
September 18, 1985	506	231.626			-0.50
October 17, 1985 November 18, 1985	535	281.625			-0.52
December 23, 1985	567 602	281.620 281.614			-0.58
	004	201.014			-0.65

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Settlement of Defense Waste Processing Facility Virtrification Building (U)

	Day	Monument	Transferred	Elevation 1	Settlement
Date	since .	elevation	elevation	difference	Sectionis
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(inches)
		vionument Point		(1000)	(Itacires)
January 28, 1986	638	281.613			-0.66
March 19, 1936	683	281.608		<del></del>	-0.72
April 18, 1986	718	281,608			-0.72
May 21, 1986	751	281.601			-0.80
June 19, 1986	780	281.599			-0.83
July 25, 1986	816	281.599		i	-0.83
August 26, 1966	848	281.593			-0.90
October 2, 1986	885	281.586			-0,98
October 28, 1986)	911	281,57Ê			-1.05
December 5, 1986	949	281.571			-1.16
December 22, 1986	966	281,566			-1.22
February 5, 1987	1,011	281,556			-1.22
February 23, 1987	1,029	281.565			-1.24
March 24, 1987	1,058	281.564			-1.25
May 26, 1987	1,121	281.563			-1.26
June 26, 1987	1,152	261,543			-1,50
July 27, 1937	1,183	281.544			-1.49
August 28, 1987	1,215	281.540			-1.54
September 28, 1987 October 29, 1987	1,246	231.537			-1.57
November 25, 1987	1,277	28 (.527)	280,270	-1.267	-1.57
December 28, 1987	1,304)	280,257			-1.61
March 31, 1988	1,337	260.267			-1.61
April 22, 1988	1,431	280.262			-1.67
May 23, 1988	1,453	280,259			-1.70
June 30, 1988	1,484	280.262			-1.67
August 1, 1988	1,522	290,258			-1.72
August 29, 1988	1,562	290,258 280,758			-1.72
September 29, 1388	1,613	260.258			-1.72
October 28, 1988	1,642	280.254			-1.72
November 28, 1988	1,672	280,251			-1.76
December 9, 1988	1,684	280.249			-1.60
January 9, 1989	1,715	280,249			-1,82
February 9, 1989	1,746	280.247			-1.82
March 9, 1989	1.774	260,249			-1.65
April 9, 1989	1,805	280,2451			-1.82
May 9, 1989	1,335	280,2481			-1.87
June 9, 1989	1,666	280,2481			-1.84
July 9, 1989	1,896	280,248	<del></del>		-1.84
October 9, 1989	1,988	280.2471			-1.84
January 17, 1990	2.088	280.245		<del></del>	- լ.85
April 9, 1990	2,170	280.2441			-1.87

Savannah River Site
Settlement of Defense Waste Processing Facility
Virtrification Building (U)

D	Day	Monument	Transferred	Elevation	Settlement
Date	since	elevation	elevation	difference	
	May 1, 1984	(feet MSL) Monument	(feet MSL)	(feet)	(Inches)
May 1, 1984		267.671	Point 14	·····	200
May 17, 1984	17	267.679			0,00
May 25, 1984	25	267.674			0.10
June 1, 1984	32	267.681	270,404	2.723	0.04
June 8, 1984	39	270.403	270,404	2.720	0.12
June 16, 1984	47	270,412			0.22
June 22, 1984	53	270,404			0.12
June 29, 1984	60	270,411	<del></del>		0.20
July 6, 1984	67	270.403			0,11
July 13, 1984	74	2/0,400			0.07
July 20, 1984	81	270.410		<u> </u>	0.19
July 27, 1984	83	270.404			0.12
August 2, 1984	94	270.400			0.07
August 10, 1984	102	270,404			0.12
August 17, 1984	109	270,396			0,03
August 27, 1984	119	270,402			0.10
August 31, 1984 September 12, 1984	123	270.398			0.05
September 12, 1984 September 14, 1984	135	270.337			0.04
September 21, 1984	137	270,397			0.04
September 28, 1984	144	270.401 270.378			0.08
October 5, 1984	151 158	270.378		<u> </u>	-0.19
October 12, 1984	165	270.398			0.02
October 18, 1984	171	270.410			0.05
October 26, 1984	179	270,404			0.19
November 2, 1984	186	270.401	281.664	11.263	0.12 0.08
November 6, 1984	190	281,637	201.004	11.263	-0.08
November 7, 1984	191	281.665			0.10
November 20, 1984	204	281.659			0.10
November 26, 1984	210	281,670	<del></del>	<del></del>	0.16
November 30, 1984	214	281.643		<del></del>	-0.17
December 7, 1984	221	281.648			-0.11
Decamber 14, 1984	228	231.653	<del></del>		-0.05
December 28, 1984	242	281,638			-0.23
January 4, 1985	249	281.642			-0,18
January 11, 1985	256	281.640			-0.20
January 18, 1985	263	281.641		<u>-</u>	-0.19
January 25, 1985	270	281.638		i i	-0.23
February 1, 1985	277	281.639			-0.22
February 8, 1985	284	281,636			-0,25
February 15, 1985	291	231.633			-0.29
February 22, 1985	298	281.634			-0.28
March 1, 1985	305	281.635			<b>-0.2</b> 6
March 8, 1985	312	281,631	[		-0.31
April 5, 1985	340	281.634			-0.28
May 8, 1985	373	281.634	287.692	6.258	-0.28
June 8, 1985	404	287.890	287,394	-0.496	-0.30
July 3, 1985	429	287.393			-0.31
July 19, 1985	445	287.393			-0,31
July 29, 1985	455	287.391			-0.34
August 12, 1985	469	287.391			-0.34
September 18, 1985	506	287.393	287.385	-0.008	-0.31
November 18, 1985	535	287,383			-0.34
December 23, 1985	567	287.380			-0.37
January 28, 1986	602	287.382			-0.35
March 19, 1986	638 688	287.381 287.371			-0.36
Mercel (9, 1990)	958	207.3/1			-0.48

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Savannah River Site Settlement of Defense Waste Processing Facility (U)

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	Days	Monument	Transferred	Elevation	Settlement	
Date	since	elevation	elevation	difference		Notes
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(Inches)	
		221-5	Monument	Point 14 (cont		
April 18, 1986	718	287.370]		,,,,,,,	-0.52	
May 21, 1986		287.363			-0.60	
June 19, 1986	780	287.360			-0.54	
July 25, 1986	816	287.358			-0.66	
August 26, 1986	848	287.361			-0.62	
October 2, 1986	885	287.353			-0.72	· · · · · · · · · · · · · · · · · · ·
October 28, 1986	911.	287.350			-0.76	
December 5, 1986	949	287.347			-0.79	
December 22, 1986	966	287.346			-0.80	
February 5, 1987	1,011	287.341			-0.86	
February 23, 1987	1,029	287.342	286,498	-0.844	-0.85	
March 24, 1987	1,058	286.494			-0.90	<u> </u>
May 26, 1987	1,121	286.485			-1.01	
June 28, 1987	1,152	286.468	287.851	1.383	-1.21	
July 27, 1987	1,183	287.845			-1.28	
August 28, 1987	1,215	287.843		-	-1.31	
September 28, 1987	1,246	287.838			-1.37	
October 29, 1987	1,277	287.840			-1.34	
November 25, 1987	1,304	287.837			-1.38	
December 28, 1987	1,337	287.834			-1.42	
March 31, 1988	1,431	267.828			-1.49	
April 22, 1988	1,453	287.826			-1.51	
May 23, 1988	1,484	287.821			-1.57	
June 30, 1988	1,522	287.821			-1.57	
August 1, 1988		287.820			-1.58	
August 29, 1988		287.81B	,		-1.61	
September 29, 1988	1,613	287.822			1.56	
October 28, 1988	1,642	287.818			-1.61	
November 28, 1988	1,673	287.819			-1.60	
Decamber 9, 1988	1,684	287.814			-1.66	
January 9, 1989	1,715	287.817			-1.62	
February 9, 1989		287.818			-1.63	
March 9, 1989	1,774	287.812			-1.68	
April 9, 1989		287.813			-1.67	
May 9, 1989	1,835	287.813			-1.67	
June 9, 1989		287.812			-1.68	
July 9, 1989		287.810			-1.70	
October 9, 1989	1,988	287.809			-1.72	
January 17, 1990	2,088	287.809			-1.72	
April 9, 1990	2,170	287.811			-1.69	
July 23, 1994	3,736	287.811			-1.69	
April 26, 1997	4,744	287.798			-1.85	
April 29, 1998	5,112	287.799			-1.84	
April 17, 1999	5,465	287.797			-1.86	
April 1, 2000	5,815	287.797			-1.86	
April 21, 2001	6,200	287.799			-1.84	
April 13, 2002	6,557	287.797			-1.86	

Savannah River Site
Settlement of Defense Waste Processing Facility
Virtrification Building (U)

Date	Day since	Monument elevation	Transferred	Elevation	Settlement
Date			elevation	difference	
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(Inches)
May 1, 1984	41	Monument 266,897	Point 15		
May 17, 1984	1 17 17 17 17 17 17 17 17 17 17 17 17 17				0.00
May 25, 1984	25	266.920 266.920			0.28
May 31, 1984	31	266,919	270,453	3,534	0.28
June 1, 1984	32	270,444	270,453	3.534	0.26
June 8, 1984	39	270.439			0,16
June 16, 1984	47	270.435	<del></del>		0.10
June 22, 1984	53	270,439			0.17
June 29, 1984	60	270,443		<u>·</u>	0,10 0,14
July 6, 1984	67	270,443			0.14
July 13, 1984	74	270,438			0.08
July 20, 1984	81	270,440			0.08
July 27, 1984	88	270,450	<del></del>		0.11
August 2, 1984	94	270,435			0.05
August 10, 1984	102	270,442			0.13
August 17, 19841	109	270,439			0.10
August 27, 1984	119	270,442			0.13
August 31, 1984	123	270,404			3.04
September 7, 1984	130	270.428	·	<del>i</del>	-0.04
September 14, 1984	137	270,421			-0.12
September 21, 1984	144	270.432		· · · · · · · · · · · · · · · · · · ·	0.01
September 28, 1984	151	270.427			-0.05
October 1, 1984	154	270.434			0.04
October 3, 1984	156	270.450			0.23
October 5, 1984	158	270.431			0.00
October 12, 1984	165	270,362			-0,83
October 18, 1984	171	270.432			0.01
October 26, 1984	179	270.435			0.05
November 2, 1984	186	270.436			0.06
November 7, 1984	191	270.435			0.05
November 20, 1984	204	270.426			-0,06
November 26, 1984	210	270.436			0.06
November 30, 1984	214	270.422			-0.11
December 7, 1984	221	270.420	281.036	10,616	-0.13
December 12, 1984	226	281,031			-0.19
December 14, 1984	228	281.031			-0.19
December 28, 1984	242	281.027			-0.24
January 4, 1985	249	281.025			-0.26
January 11, 1985	256	281.019			-0.34
January 18, 1985	263	281,017			-0,36
January 25, 1985	270	281,014	280.829	-0.185	-0.40
February 1, 1985	277	280,831			-0.37
February 8, 1985	284	280.831			-0.37
February 15, 1985	291	280,830			-0,38
February 22, 1985	298	280.826			-0.43
March 1, 1985	305	280.831			-0.37
March 8, 1985	312	280.830			-0,38

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Date	Day	Monument	Transferred	Elevation	Settlement
Date	since	elevation	elevation	difference	
<u> </u>	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(inches)
May 1, 1984		Monument	Point 16		
May 17, 1984	1 17	266.701			0.00
May 25, 1984	25	266,719			0.22
May 30, 1984	30	266.717	070 (00		0,19
June 1, 1984	32	266.714	270.406	3,692	0.16
June 8, 1984	39	270,400			0.08
June 16, 1984	47	270.389			-0,05
June 22, 1984	53	270,393 270,391			0.00
June 29, 1984	60	270.391			-0.02
July 6, 1984	67	270.394			0.05
July 13, 1984	74	270.392			0.01
July 20, 1984	81	270,392			-0.01
July 27, 1984	88	270,401			-0.04
August 2, 1984	94	270.395			0.10
August 10, 1984	102	270.392		<del></del>	-0.01
August 17, 1984	109	270,404			0.14
August 27, 1984	119	270,388			-0.06
August 31, 1984	123	270,384			-0.11
September 7, 1984	130	270,386			-0.08
September 14, 1984	137	270.386	281,051	10.665	-0.08
September 21, 1984	144	281,048		- ,0,000	-0.12
September 28, 1984	151	281,030			-0.34
October 1, 1984	154	281,039	<del></del>		-0.23
October 5, 1984	158	281.03€			-0.26
October 12, 1984	165	281,045			-0.16
October 18, 1984	171	281,046			-0.14
October 26, 1984	179	281.037			-0.25
November 2, 1984	186	281.037			-0.25
lovember 7, 1984	191	281.037			-0.25
November 20, 1984	204	281.033			-0.30
November 26, 1984	210	281.037			-0.25
November 30, 1984	214	281.020			-0.46
December 7, 1984	221	281.024			-0.41
December 14, 1984	228	281.025			-0.40
December 28, 1984	242	281.015			-0.52
January 4, 1985	249	281,019			-0.47
January 11, 1985	256	281,017			-0,49
January 18, 1985	263	281,015			-0.52
January 25, 1985	270	281,011	280,831	-0.180	-0.56
February 1, 1985	277	280,835			-0.52
February 8, 1985	284	280,832			-0.55
February 15, 1985	291	280.832			-0.55
February 22, 1985	298	280.831			-0.55
March 1, 1985	305	280.835			-0.52
March 8, 1985	312	280,834			-0.53

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# Savannah River Site Settlement of Defense Waste Processing Facility Virtrification Building (U)

	Day	Monument	Transferred	Elevation	Settlement
Date	eonia	elevation	elevation	difference	
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(Inches)
Marian base 4007	100	Monument	Point 18		
November 8, 1984 November 12, 1984	192	279.553			0.00
November 20, 1984	196 204	279,529			-0.29
November 26, 1984	204	279,532			-0,25
November 30, 1984	214	279.530			-0.28
December 7, 1984	221	279.533 279.547			-0.24
December 14, 1984	228	279.540			-0.07
December 28, 1984	242	279.533			-0.16
January 4, 1985	249	279.538			-0.24
January 11, 1985	256	279,525	<del></del>		-0.18
January 18, 1985	263	279,526			-0.34
January 25, 1985	270	279.527			-0.32 -0.31
February 1, 1985	277	279.517			-0.43
February 8, 1985	284	279.515	<del></del>		-0.45
February 15, 1985	291	279.516	<del></del>		-0.44
February 22, 1985	298	279.512	<del></del>		-0.49
March 1, 1985	305	279.511	<del></del>		-0.49
March 8, 1985	312	279.512			-0.49
April 5, 1985	340	279,509	<del></del>	<del></del>	-0.53
May 8, 1985	373	279.505	284.696	5,391	-0.58
June 8, 1985	404	284.892	284,356	-0.536	-0.62
July 3, 1985	429	284,354			-0.65
July 19, 1985	445	284,351			-0.68
July 29, 1985	455	284.351			-0.68
August 12, 1985	469	284.351			-0.68
September 18, 1985	506	284.351	287,435	3,084	-0,68
October 17, 1985	<b>53</b> 5	287.436			-0.67
November 18, 1985	567	287.434			-0,70
December 23, 1985	602	287,441			-0.61
January 28, 1986	638	287.433			-0.71
March 19, 1986	688	287.422			-0.84
April 18, 1986	718	287.418			-0.89
May 21, 1986	751	287.412			-0,96
June 19, 1986	780	287.407			-1,02
July 25, 1986	816	287.405			-1.04
August 26, 1986	848	287.408			-1.00
October 2, 1986	885	287,406			-1.03
October 28, 1986	911	287.409			-1.00
December 5, 1986	949	287,410			-0,98
December 22, 1986	966	287.405			-1,04
February 5, 1987	1,011	287.398			-1.13
February 23, 1987	1,029	287.398			-1,13
March 24, 1987	1,058	287.390			-1.22
May 26, 1987 June 26, 1987	1,121	287.378			-1.37
	1,152	287,357			-1.62
July 27, 1987	1,183	287.354			-1.66
August 28, 1987	1,215	287.351	288.836	1.485	-1.69
September 28, 1987 October 29, 1987	1,246	288,834			-1.72
November 25, 1987	1,277	288.831			-1.75
December 28, 1987	1,304	288.828			-1.79
March 31, 1988	1,337	288.823			-1.85
	1,431	288.792			-2.22
April 22, 1988	1,453	288.790			-2.24
May 23, 1988	1,484	288.784			-2.32
June 30, 1988	1,522	288.778			-2.39
August 1, 1988 August 29, 1988	1,554	288.775			-2.42
AUGUST ZV. 1908	1,582	288.772	1		-2.46

Savannah River Site Settlement of Defense Waste Processing Facility (U) K-ESR-S-00005, Rev. 0 September 2002 Appendix F Page F- 27

D-1-	Days	Monument	Transferred	Elevation	Settlement	
Date	since	elevation	elevation	difference		Notes
	May 1, 1984		(feet MSL)	(feet)	(Inches)	
		221-S	Monument	Point 18 (cont		
September 29, 1988					-2.46	
October 28, 1988					-2.47	
November 28, 1988					-2.50	
December 9, 1988					-2.52	
January 9, 1989					-2.52	
February 9, 1989					-2.56	
March 9, 1989		288.782			-2.58	
April 9, 1989	1,805	288.761			-2.59	
May 9, 1989		288.761			-2.59	
June 9, 1989					-2.62	
July 9, 1989	1,896	288.755			-2.66	
October 9, 1989	1,988	288.756			-2.65	
January 17, 1990	2,088	288.751			-2.71	
April 9, 1990	2,170	288.751			-2.71	
October 9, 1990	2,353	288.747			-2.76	
April 12, 1991					-2.82	
July 23, 1994	3,736	288.733			-2.93	
April 26, 1997	4,744	288.720			-3.08	
April 29, 1998	5,112	288.723			-3.05	
April 17, 1999	5,465	288.718	288.719	0.001	-3.11	based on historical curve
April 1, 2000	5,815	288.722		""	-3.06	
April 21, 2001	6,200	288.716			-3.13	i
April 13, 2002	6,557	288,715			-3.15	<del></del>

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Savannah River Site Settlement of Defense Waste Processing Facility Virtrification Building (U)

Date	Day since	Monument elevation	Transferred elevation	Elevation difference	Settlement
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(Inches)
		Monument	Point 25		<del></del>
December 12, 1984	226	281.381		1	0,00
December 14, 1984	228	281.381			0.00
December 28, 1984	242	281.367			-0.17
January 4, 1985	249	281.368			-0.16
January 11, 1985	256	281.361			-0.24
January 18, 1985.	263	281,360			-0.25
January 25, 1985	270	281,357	280.848	-0.509	-0.29
February 1, 1985	277	280,850			-0.26
February 8, 1985	284	280.850		-	-0.26
February 15, 1985	291	280.849		-	-0.28
February 22, 1985	298	280.847			-0.30
March 1, 1985	305	280.851			-0.25
March 8, 1985	312	280.848	<del></del>		-0.29

Savannah River Site Settlement of Defense Waste Processing Facility Virtrification Building (U)

	Day	Monument	Transferred	Elevation	Settlement
Oate	since	elevation	elevation	difference	Cottonion
	May 1, 1984	_(feet MSL)	(feet MSL)	(feet)	(Inches)
		Monument	Point 26		`
November 8, 1984	192	279,522			0.00
November 12, 1984	196	279,510			-0.14
November 20, 1984	204	279.504			-0.22
November 26, 1984 November 30, 1984	210	279.506			-0.19
December 7, 1984	214	279,502		_	-0.24
December 14, 1984	221	279.516			-0.07
December 28, 1984	228 242	279.514 279.513			-0.10
January 4, 1985	249	279,515			-0.11
January 11, 1985	256	279,505			-0.08
January 18, 1985	263	279.504	<del></del>		-0.20
January 25, 1985	270	279,502			-0.22
February 1, 1985	277	279,500			-0.24 -0.26
February 8, 1985	284	279.497	-		-0.30
February 15, 1985	291	279.498			-0.29
February 22, 1985	298	279.497			-0,30
March 1, 1985	305	279,497			-0.30
March 8, 1985	312	279,496			-0.31
April 5, 1985	340	279.494			-0,34
May 8, 1985	373	279.492	279.358	-0.134	-0,36
June 8, 1985	404	279.358	284.421	5.063	-0,36
July 3, 1985	429	284.420			-0.37
July 19, 1985	445	284.420			-0.37
August 12, 1985	469	284.420	287,389	2.969	-0.37
September 18, 1985 October 17, 1985	506	287.386			-0.41
November 18, 1985	535	287.386			-0.41
December 23, 1985	567 602	287.385			-0.42
January 28, 1986	638	287.383 287.380			-0.44
March 19, 1986	688	287.370			-0.48
April 18, 1986	718	287.368			-0.60
May 21, 1986	751	287.360			-0.62 -0.72
June 19, 1986	780	287,357			-0.76
July 25, 1986	816	287.356			-0.77
October 2, 1986	885	287,353			-0.80
October 28, 1986	911	287.351			-0.83
December 5, 1986	949	287.350			-0.84
December 22, 1986	966	287.345			-0.90
February 5, 1987	1,011	287.341	i		-0.95
February 23, 1987	1,029	287.337		<del></del>	-1.00
March 24, 1987	1,058	287.333			-1.04
May 26, 1987	1,121	287.319			-1.21
June 26, 1987	1,152	287.303			-1.40
July 27, 1987	1,183	287.298			-1.46
August 28, 1987	1,215	287.294			-1.51
September 28, 1987	1,246	287.288			-1.58
October 29, 1987 November 25, 1987	1,277	287.285			-1.62
December 28, 1987	1,304	287.283			-1.64
March 31, 1988	1,337	287.276			-1.73
April 22, 1988		287.252			-2.02
May 23, 1988	1,453	287.251 287.244			-2.03
June 30, 1988	1,522				-2.11
August 1, 1988	1,554	287.238 287.233			-2.18
August 29, 1988	1,582	287.233			-2.24
September 29, 1988	1,613	287.230	<del></del> [-		-2.28
October 28, 1988	1,642	287.226		<del></del>	-2.28
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,072	501.520			-2.33

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Savannah River Site Settlement of Defense Waste Processing Facility (U) K-ESR-S-00005, Rev. 0 September 2002 Appendix F Page F- 40

— <u>—</u>	Days	Monument	Transferred	Elevation	Settlement	_
Date	since	elevation	elevation	difference		Notes
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(Inches)	
		221-S	Monument	Point 26 (con	tinued)	· · · · · · · · · · · · · · · · · · ·
November 28, 1988		287.226			-2.38	
December 9, 1988					-2.42	
January 9, 1989					-2.42	
February 9, 1989					-2.45	
March 9, 1989		287.220			-2.45	
April 9, 1989					-2.47	
May 9, 1989					-2.47	
June 9, 1989		287.215			-2.51	
July 9, 1989					-2.53	
October 9, 1989		287.213			-2.53	
January 17, 1990		287.206			-2.62	
April 9, 1990					-2.60	
October 9, 1990		287.207			-2.60	
April 12, 1991					-2.70	
July 23, 1994		287.193			-2.77	
April 26, 1997					-2.98	
April 29, 1998					-2.94	
April 17, 1999					-2. <b>9</b> 9	
April 1, 2000					-2.98	
April 21, 2001					-3.01	
April 13, 2002	6,557	287.171			-3.03	

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December 14, 1984   228   280,988   -0.38   -0.38   -0.38	D	Day	Monument	Transferred	Elevation	Settlement
Mortunert Point 28	Date				difference	•
October 1, 1984 154 281.018 0.00 October 5, 1984 156 281.006 0.00 October 5, 1984 156 281.006 0.01 October 18, 1984 165 281.006 0.01 October 18, 1984 177 281.005 0.01 October 18, 1984 177 281.005 0.01 October 28, 1984 179 281.001 0.02 November 2, 1984 198 281.001 0.02 November 2, 1984 199 281.001 0.02 November 2, 1984 191 281.001 0.02 November 20, 1984 199 281.001 0.02 November 20, 1984 199 281.001 0.02 November 20, 1984 204 280.991 0.02 November 20, 1984 210 281.002 0.01 November 20, 1984 221 280.991 0.02 November 21, 1984 221 280.985 0.01 December 14, 1984 221 280.986 0.03 December 14, 1984 228 280.988 0.03 January 1, 1985 249 260.988 0.03 January 11, 1985 260 280.984 0.03 January 11, 1985 260 280.984 0.04 January 18, 1985 260 280.984 0.04 January 19, 1985 270 280.986 0.03 January 11, 1985 270 280.987 280.804 0.172 0.50 February 1, 1985 271 280.307 0.04 February 1, 1985 271 280.307 0.04 February 2, 1985 271 280.307 0.04 February 2, 1985 281 280.804 0.05 March 1, 1985 392 280.804 0.05 March 1, 1985 393 280.904 0.05 March 1, 1985 394 281.181 281.181 0.04 July 3, 1985 469 281.813 281.616 0.05 July 3, 1985 469 281.813 281.616 0.05 July 3, 1985 469 281.813 281.616 0.05 July 2, 1986 688 281.592 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 1986 688 281.593 0.05 July 2, 198	<u> </u>	May 1, 1984			(feet)	(Inches)
October 5, 1984	October 1 10841	1271		Point 28		
October 5, 1984 158 281 000 -0.22 Coctober 12, 1984 165 281 0005 -0.14 Coctober 32, 1984 171 281 0005 -0.14 Coctober 33, 1984 171 281 0005 -0.16 Coctober 35, 1984 173 281 0001 -0.22 November 2, 1984 191 281 001 -0.22 November 7, 1984 191 281 001 -0.22 November 15, 1984 191 281 001 -0.22 November 15, 1984 284 280 991 -0.23 November 28, 1984 284 280 991 -0.23 November 28, 1984 284 280 991 -0.23 November 30, 1984 284 280 991 -0.23 November 30, 1984 284 280 991 -0.19 November 30, 1984 221 280 985 -0.49 December 14, 1984 228 280 985 -0.40 December 14, 1984 228 280 986 -0.38 January 11, 1985 249 280 986 -0.38 January 11, 1985 269 280 986 -0.38 January 11, 1985 269 280 987 -0.44 January 25, 1983 270 280 976 280 804 -0.172 February 1, 1985 277 280 907 -0.47 February 1, 1985 284 280 804 -0.47 February 1, 1985 294 280 807 -0.47 February 1, 1985 294 280 804 -0.59 March 1, 1985 305 280 809 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 312 280 807 -0.47 April 5, 1985 340 280 310 278 313 281,616 3.000 -0.47 April 5, 1985 340 280 310 278 313 281,616 3.000 -0.47 April 5, 1985 340 280 310 278 313 281,616 3.000 -0.47 April 5, 1985 345 281,616 3.000 -0.47 April 5, 1985 345 281,616 3.000 -0.47 April 5, 1985 345 281,616 3.000 -0.47 April 5, 1985 345 281,616 3.000 -0.47 April 5, 1985 345 281,616 3.000 -0.47 April 5, 1985 345	October 3 1984					
October 12, 1984 165 281 005	October 5, 1984					
October 18, 1984 171 281 005	October 12, 1984					
October 28, 1984 179 281 001	October 18, 1984				ļ	
November 2, 1984 186 260 999	October 26, 1984				<del></del>	
November 7, 1994 191 281.001	November 2, 1984			<del></del>		
November 20, 1984   199	November 7, 1984	191				
November 20, 1984 204 280.991 0.33 November 20, 1984 210 281.002 0.03 November 30, 1984 214 230.990 0.34 December 14, 1984 221 280.985 0.040 December 14, 1984 228 280.988 0.38 December 14, 1984 229 280.988 0.38 December 28, 1984 242 280.986 0.38 January 11, 1985 256 280.984 0.041 January 11, 1985 256 280.984 0.041 January 11, 1985 256 280.984 0.041 January 11, 1985 263 280.082 January 11, 1985 277 280.807 0.047 February 12, 1985 277 280.807 0.047 February 15, 1985 294 280.307 0.047 February 15, 1985 294 280.307 0.047 February 15, 1985 294 280.307 0.047 February 15, 1985 291 280.304 0.050 March 1, 1985 305 280.309 0.044 March 8, 1985 312 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.307 0.047 April 5, 1985 340 280.310 276.314 0.043 July 19, 1985 450 277 July 19, 1985 450 281.616 0.044 August 12, 1985 469 281.613 September 18, 1985 567 281.616 0.044 August 12, 1985 563 281.609 November 18, 1985 567 281.609 November 18, 1985 567 281.609 November 23, 1985 568 281.593 0.053 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.071 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.073 April 8, 1986 638 281.593 0.074 April 8, 1986 638 281.593 0.074 April 8, 1986 638 281.593 0.074 April 8, 1986 638 281.593 0.074 April 8, 1986 638 281.593 0.074 April 8, 1986 638 281.594 0.075 April 9, 1986 638 281.594 0.075 April 9, 1986 63		199	281.001			
November 26, 1984   210   281,002		204	280.991			
November 30, 1984 214 280.990	November 26, 1984	210				
December 14, 1984   228   280,985   -0.46	November 30, 1984		280,990		<u> </u>	
December 28, 1984   242   280,986   -0.38   -0.38   January 4, 1985   249   280,986   -0.38   January 11, 1985   256   280,984   -0.47   January 18, 1985   253   280,982   -0.47   January 18, 1985   277   280,907   -0.172   -0.50   January 19, 1985   277   280,907   -0.47   February 1, 1985   277   280,907   -0.47   February 1, 1985   271   280,807   -0.47   February 2, 1985   291   280,804   -0.50   -0.47   February 22, 1985   293   280,804   -0.50   March 1, 1985   305   280,809   -0.50   March 1, 1985   305   280,809   -0.44   May 8, 1985   312   280,807   -0.47   April 5, 1985   340   280,809   -0.44   May 8, 1985   340   280,810   278,314   -2496   -0.43   July 8, 1985   445   281,616   -0.44   July 9, 1985   445   281,616   -0.42   July 29, 1985   4455   281,616   -0.42   July 29, 1985   4455   281,616   -0.42   July 29, 1985   455   281,616   -0.42   July 29, 1985   506   281,610   -0.52   -0.52   -0.53   November 18, 1985   506   281,610   -0.52   -0.53   November 18, 1985   567   281,602   -0.53   -0.53   November 18, 1985   567   281,602   -0.61   -0.52   -0.61   Junuary 28, 1986   688   281,594   -0.71   March 19, 1986   688   281,594   -0.71   March 19, 1986   688   281,594   -0.72   May 21, 1986   688   281,593   -0.72   May 21, 1986   688   281,593   -0.72   May 21, 1986   686   885   281,594   -0.77   -0.79   August 26, 1986   686   281,547   -0.79   -0.79   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84   -0.84	December 7, 1984					-0.40
January 4, 1985 249 280,986 0.38 January 11, 1985 256 280,984 0.41 January 18, 1985 263 280,982 0.43 January 25, 1985 270 280,976 280,804 0.172 0.50 February 1, 1985 277 280,307 0.47 February 1, 1985 291 280,804 0.50 February 2, 1985 291 280,804 0.50 February 2, 1985 291 280,804 0.50 February 2, 1985 398 280,804 0.50 February 2, 1985 398 280,804 0.50 March 1, 1985 305 280,809 0.044 April 5, 1885 312 280,807 0.047 April 5, 1885 312 280,807 0.047 April 5, 1885 340 280,809 0.044 March 8, 1985 312 280,807 0.044 Mar 8, 1985 373 280,810 278,314 0.44 June 8, 1985 404 280,810 278,314 0.496 0.43 July 3, 1985 429 278,313 281,616 3,303 0.44 July 19, 1985 445 281,618 0.042 July 29, 1985 455 281,618 0.042 August 12, 1985 469 281,618 0.048 Argust 12, 1985 469 281,618 October 17, 1985 535 281,609 0.052 October 17, 1985 535 281,609 0.053 November 18, 1985 602 281,598 0.066 January 28, 1986 638 281,592 0.073 April 8, 1986 761 281,593 0.072 August 21, 1986 761 281,593 0.073 April 8, 1986 761 281,593 0.072 August 26, 1986 846 281,583 0.084 October 2, 1986 846 281,583 0.084 October 2, 1986 868 281,593 0.072 August 26, 1986 846 281,583 0.084 October 2, 1986 885 281,593 0.074 August 26, 1986 846 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,583 0.084 October 2, 1986 865 281,585 0.085 October 2, 1986 865 281,583 0.085 October 29, 1987 1,121	December 14, 1984					-0.36
January 11, 1985 256 280,984 0.43 January 18, 1985 263 280,982 0.43 January 25, 1985 270 280,976 280,804 0.172 0.50 February 1, 1985 277 280,807 0.47 February 15, 1985 284 280,807 0.47 February 15, 1985 291 280,804 0.50 March 1, 1985 305 280,809 0.05 March 1, 1985 312 280,807 0.44 Mark 8, 1985 340 280,809 0.044 Mark 8, 1985 312 280,807 0.44 Mark 8, 1985 340 280,809 0.044 Mark 8, 1985 340 280,800 0.044 Mark 8, 1985 404 280,810 278,314 0.466 0.43 July 3, 1985 425 278,313 281,616 3,300 0.44 July 19, 1985 445 281,618 0.044 July 19, 1985 445 281,618 0.044 July 19, 1985 465 281,618 0.044 August 12, 1985 469 281,613 0.048 September 18, 1985 506 281,610 0.058 October 17, 1985 503 281,609 0.058 June 8, 1985 567 281,602 0.058 June 19, 1986 688 281,592 0.058 June 19, 1986 688 281,592 0.073 April 8, 1986 78 281,583 0.88 July 25, 1986 846 281,583 0.080 July 25, 1986 846 281,583 0.080 July 25, 1986 846 281,583 0.080 July 25, 1986 846 281,583 0.080 July 25, 1986 846 281,583 0.080 July 25, 1986 846 281,583 0.080 July 25, 1986 846 281,583 0.080 July 27, 1987 1,121 281,547 0.079 February 28, 1986 949 281,583 0.080 July 27, 1987 1,103 281,547 0.179 February 28, 1986 949 281,583 0.080 July 27, 1987 1,103 281,547 0.179 February 28, 1987 1,029 281,549 0.079 February 28, 1986 949 281,583 0.080 July 27, 1987 1,103 281,547 0.179 February 28, 1987 1,029 281,549 0.179 February 28, 1987 1,029 281,549 0.179 February 28, 1987 1,029 281,549 0.179 July 27, 1987 1,163 281,547 0.127 February 28, 1987 1,029 281,549 0.179 July 27, 1987 1,163 281,547 0.127 February 28, 1987 1,029 281,549 0.159 July 27, 1987 1,163 281,547 0.127 February 28, 1987 1,212 281,549 0.159 July 27, 1987 1,163 281,547 0.127 February 28, 1987 1,215 281,547 0.128 July 27, 1987 1,163 281,547 0.128 July 27, 1987 1,163 281,547 0.128 July 27, 1987 1,163 281,547 0.128 July 27, 1987 1,163 281,547 0.128 July 29, 1987 1,215 281,547 0.128 July 29, 1987 1,215 281,547 0.1280	December 28, 1984					-0.38
January 18, 1985 263 280,982 0,43 January 25, 1985 270 280,976 280,804 0,172 0,50 February 1, 1985 277 280,807 0-0.47 February 15, 1985 291 280,800 0,50 February 22, 1985 298 280,800 0,50 March 1, 1985 305 280,800 0,050 March 1, 1985 307 280,800 0,044 March 8, 1985 312 280,807 0,047 April 5, 1985 400 280,800 0,044 Mary 8, 1985 373 280,810 278,314 -2,496 0,43 June 8, 1985 402 278,313 281,616 3,303 0,44 July 19, 1985 445 281,618 0,042 July 29, 1985 455 281,616 0,044 August 12, 1985 506 281,610 0,055 October 17, 1985 535 281,600 0,055 December 23, 1985 602 281,594 0,071 March 19, 1985 688 281,594 0,071 March 19, 1985 688 281,592 0,073 April 18, 1986 780 281,593 0,072 April 18, 1986 780 281,593 0,073 August 19, 1986 881 281,593 0,073 April 18, 1986 780 281,593 0,074 March 19, 1986 688 281,593 0,074 March 19, 1986 688 281,593 0,075 April 18, 1986 780 281,593 0,078 August 26, 1986 848 281,593 0,084 October 2, 1986 848 281,593 0,085 October 29, 1987 1,121 281,547 0,087 October 29, 1987 1,121 281,547 0,087 October 29, 1987 1,127 280,257 0,087	January 4, 1985					-0.38
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June 8, 1985	May 8, 1985					
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July 19, 1985	July 3, 1985	429				
July 29, 1985		445			0.000	
August 12, 1985		455	281.616			
September 18, 1985	August 12, 1985	469	281.613			
November 18, 1985   535   281,609   -0.53			281.610			
November 18, 1985   567   281.602   -0.61   December 23, 1985   602   281.598   -0.66   January 28, 1986   638   281.594   -0.71   March 19, 1986   688   281.592   -0.73   April 18, 1986   751   281.586   -0.84   June 19, 1986   760   281.583   -0.84   July 25, 1986   816   281.583   -0.84   July 25, 1986   848   281.583   -0.84   August 26, 1986   848   281.583   -0.84   October 2, 1986   885   281.572   -0.97   October 28, 1986   911   281.564   -1.07   December 5, 1986   949   281.555   -1.16   December 5, 1986   966   281.547   -1.27   February 5, 1987   1,011   281.547   -1.27   February 23, 1987   1,058   281.543   -1.31   March 24, 1987   1,058   281.543   -1.32   May 26, 1987   1,152   281.529   -1.33   June 26, 1987   1,215   281.521   -1.58   August 28, 1987   1,246   281.517   280.267   -1.250   -1.63   October 29, 1987   1,277   280.257   -1.75			281.609			
December 23, 1985   602   281.598   -0.66     January 28, 1986   638   281.594   -0.71     March 19, 1986   688   281.592   -0.73     April 18, 1986   718   281.593   -0.72     May 21, 1986   751   281.586   -0.84     June 19, 1986   780   281.583   -0.84     July 25, 1986   816   281.587   -0.79     August 26, 1986   848   281.583   -0.84     October 2, 1986   885   281.572   -0.97     October 28, 1986   949   281.556   -1.16     December 5, 1986   949   281.556   -1.16     December 22, 1986   966   281.547   -1.27     February 5, 1987   1,011   281.547   -1.27     February 23, 1987   1,058   281.543   -1.31     March 24, 1987   1,058   281.543   -1.32     May 26, 1987   1,151   281.542   -1.33     June 26, 1987   1,183   281.521   -1.58     August 28, 1987   1,215   281.517   -1.63     October 29, 1987   1,246   281.517   280.267   -1.250   -1.63     October 29, 1987   1,277   280.257   -1.75	November 18, 1985		281.602			
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October 2, 1986 885 281.572 -0.97 October 28, 1986 911 281.564 -1.07 December 5, 1986 949 281.556 -1.16 December 22, 1986 966 281.547 -1.27 February 5, 1987 1,011 281.547 -1.27 February 23, 1987 1,029 281.544 -1.31 March 24, 1987 1,058 281.543 -1.32 May 26, 1987 1,121 281.542 -1.32 June 26, 1987 1,152 281.542 -1.33 June 26, 1987 1,183 281.529 -1.49 July 27, 1987 1,183 281.521 -1.58 August 28, 1987 1,215 281.517 280.267 -1.250 -1.63 October 29, 1987 1,277 280.257 -1.75						-0.79
October 28, 1986         911         281.564         -0.97           December 5, 1986         949         281.556         -1.16           December 22, 1986         966         281.547         -1.27           February 5, 1987         1,011         281.547         -1.27           February 23, 1987         1,029         281.544         -1.31           March 24, 1987         1,058         281.543         -1.32           May 26, 1987         1,121         281.542         -1.33           June 26, 1987         1,152         281.529         -1.49           July 27, 1987         1,183         281.521         -1.58           August 28, 1987         1,215         281.517         -1.63           September 28, 1987         1,246         281.517         280.267         -1.250         -1.63           October 29, 1987         1,277         280.257         -1.75         -1.75	October 2 1986					
December 5, 1986 949 281.556 -1.16  December 22, 1986 966 281.547 -1.16  December 22, 1986 966 281.547 -1.27  February 5, 1987 1,011 281.547 -1.27  February 23, 1987 1,029 281.544 -1.27  March 24, 1987 1,058 281.543 -1.31  March 24, 1987 1,158 281.542 -1.33  June 26, 1987 1,152 281.529 -1.49  July 27, 1987 1,183 281.521 -1.58  August 28, 1987 1,215 281.517 -1.63  September 28, 1987 1,246 281.517 280.267 -1.250 -1.63  October 29, 1987 1,277 280.257 -1.75						
December 22, 1986 966 281.547 -1.16,  February 5, 1987 1,011 281.547 -1.27  February 23, 1987 1,029 281.544 -1.31  March 24, 1987 1,058 281.543 -1.32  May 26, 1987 1,121 281.542 -1.33  June 26, 1987 1,152 281.529 -1.49  July 27, 1987 1,183 281.521 -1.58  August 28, 1987 1,215 281.517 -1.63  September 28, 1987 1,246 281.517 280.267 -1.250 -1.63  October 29, 1987 1,277 280.257 -1.75						
February 5, 1987 1,011 281.547 -1.27 February 23, 1987 1,029 281.544 -1.27 March 24, 1987 1,058 281.543 -1.31 May 26, 1987 1,121 281.542 -1.33 June 26, 1987 1,152 281.529 -1.49 July 27, 1987 1,183 281.521 -1.58 August 28, 1987 1,215 281.517 -1.63 September 28, 1987 1,246 281.517 280.267 -1.250 -1.63 October 29, 1987 1,277 280.257 -1.75						
February 23, 1987 1,029 281.544 -1.27  March 24, 1987 1,058 281.543 -1.32  May 26, 1987 1,121 281.542 -1.33  June 26, 1987 1,152 281.529 -1.49  July 27, 1987 1,183 281.521 -1.58  August 28, 1987 1,215 281.517 -1.63  September 28, 1987 1,246 281.517 280.267 -1.250 -1.63  October 29, 1987 1,277 280.257 -1.75						
March 24, 1987     1,058     281.543     -1.32       May 26, 1987     1,121     281.542     -1.33       June 26, 1987     1,152     281.529     -1.49       July 27, 1987     1,183     281.521     -1.58       August 28, 1987     1,215     281.517     -1.63       September 28, 1987     1,246     281.517     280.267     -1.250     -1.63       October 29, 1987     1,277     280.257     -1.75       Newamber 26, 1987     1,207     280.257     -1.75						
May 26, 1987 1,121 281.542 -1.33  June 26, 1987 1,152 281.529 -1.49  July 27, 1987 1,183 281.521 -1.58  August 28, 1987 1,215 281.517 -1.63  September 28, 1987 1,246 281.517 280.267 -1.250 -1.63  October 29, 1987 1,277 280.257 -1.75	March 24, 1987				<del></del>	
June 26, 1987     1,152     281.529     -1.49       July 27, 1987     1,183     281.521     -1.58       August 28, 1987     1,215     281.517     -1.63       September 28, 1987     1,246     281.517     280.267     -1.250     -1.63       October 29, 1987     1,277     280.257     -1.75       Nevember 26, 1987     1,277     280.257     -1.75	May 26, 1987					
July 27, 1987     1,183     281.521     -1.58       August 28, 1987     1,215     281.517     -1.63       September 28, 1987     1,246     281.517     280.267     -1.250     -1.63       October 29, 1987     1,277     280.257     -1.75       Newamber 26, 1987     1,207     280.257     -1.75	June 26, 1987					
August 28, 1987     1,215     281.517     -1.63       September 28, 1987     1,246     281.517     280.267     -1.250     -1.63       October 29, 1987     1,277     280.257     -1.75       Nevember 35, 1987     1,204     280.257     -1.75	July 27, 1987			<del></del>	<del></del>	
September 28, 1987         1,246         281,517         280,267         -1,250         -1,63           October 29, 1987         1,277         280,257         -1,75           Nevember 35, 1987         1,277         280,257         -1,75	August 28, 1987			<del></del>	<del></del>	
October 29, 1987 1,277 280.257 -1,75				280.267	-1.250	
	October 29, 1987					
	November 25, 1987	1,304	280.252			-1,75

Savannah River Site
Settlement of Defense Waste Processing Facility
Virtrification Building (U)

	Day	Monument	ransterred	Elevation	Settlement
Date	since	elevation	elevation	difference	
	May 1, 1984	(feet MSL)	(feet MSL)	(feet)	(inches)
		Monument Point	28 (coutinued)		<u> </u>
December 28, 1987	1,337	280.247			-1.87
March 31, 1988		280.237			-1.99
April 22, 1988		280,232			-2.05
May 23, 1988		280.236			-2.00
June 30, 1988		280.230			-2.08
August 1, 1988		280.234			-2.03
August 29, 1988		280.229			-2.09
September 29, 1988		280.229			-2.09
October 28, 1988	1,642	280.222			-2.17
November 28, 1988	1,673	280,220			-2.20
December 9, 1988	1,684	280.216	·		-2.24
January 9, 1989	1,715	280.217			-2.23
February 9, 1989	1,746	280.214			-2.27
March 9, 1989	1,774	280.215			-2.26
April 9, 1989	1,805	280.210			-2.32
May 9, 1989	1,835	280.213			-2.28
June 9, 1989	1,866	280.217			-2.23
July 9, 1989	1,896	280.213			-2.28
October 9, 1989	1,988	280.209			-2.33
January 17, 1990	2,088	280.204			-2.39
April 9, 1990	2,170	280.203	· · · · · · · · · · · · · · · · · · ·		-2.40

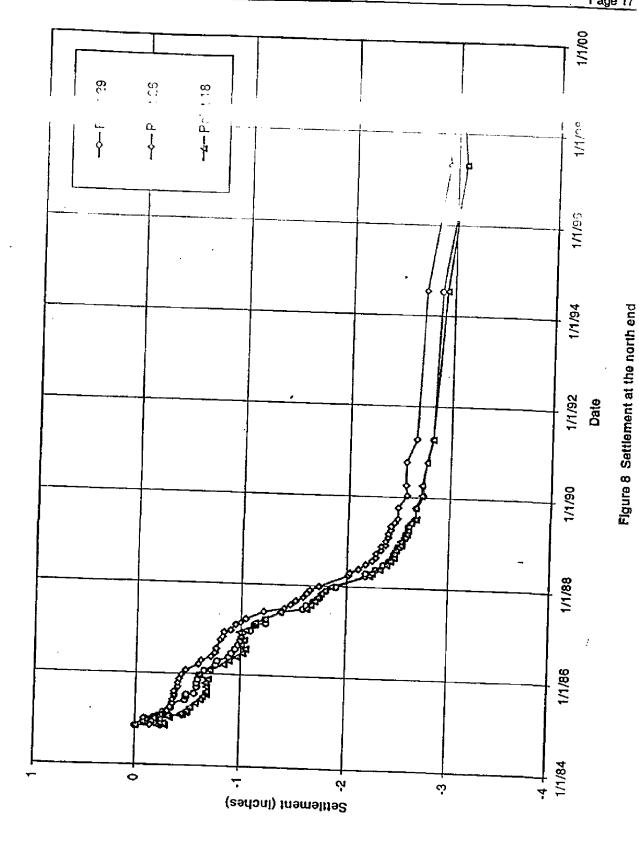
# Savannah River Site Settlement of Defense Waste Processing Facility Virtrification Building (U)

Date	Day since	Monument elevation	Transferred	Elevation	Settlement
	May 1, 1984	(feet MSL)	elevation (fact the second	difference	
	1444 1, 1504	Monument	(feet MSL)	(feat)	(Inches)
November 2, 1984	186	281,3151	runt 37		T
November 6, 1984	190	281.288			0.00
November 7, 1984	191	281.317			-0.32
November 20, 1984	204	281.304			0.02
November 26, 1984	210	281.316			-0.13
November 30, 1984	214	281.291			-0.29
December 7, 1984	221	281.292			-0.29
December 14, 1984	228	281.297			-0.22
December 28, 1984	242	281.282		····	-0.40
January 4, 1985	249	281.286			-0.35
January 11, 1985	256	281.287			-0.34
January 18, 1985	263	281.287			-0.34
January 25, 1985	270	281.285			-0,36
February 22, 1985	298	281.282			-0.40
March 1, 1985 March 8, 1985	305	281.283			-0.38
April 5, 1985	312	281.281			-0.41
May 8, 1985	340	281,282			-0.40
June 8, 1985	373	281.282	284.694	3.612	-0.40
July 3, 1985	404 429	284,895	287.404	2.509	-0.38
July 19, 1985	445	287.404			-0.38
July 29, 1985	455	287.404 287.401			-0,38
August 12, 1985	469	287.400			-0.42
September 18, 1985	506	287.400			-0.43
October 17, 1985	535	287.397		<del></del>	-0.43
November 18, 1985	567	287.394			-0.47
December 23, 1985	602	287.393			-0.50
January 28, 1986	638	287.392			-0.52
March 19, 1986	688	287.382			-0.53
April 18, 1986	718	287.381			-0.65
May 21, 1986	751	287.376			-0.66 -0.72
June 19, 1986	780	287.373		<del></del>	-0.72
July 25, 1986	816	287.373			-0.76
August 26, 1986	848	287.372			-0.77
October 2, 1986	885	287.365			-0.85
October 28, 1986	911	287.361			-0.90
December 5, 1986	949	287,357			-0.95
December 22, 1986	966	287.355			-0.97
February 5, 1987 February 23, 1987	1,011	287.351			-1.02
March 24, 1987	1,029	287.352			-1.01
May 26, 1987	1,058	287.349			-1.04
June 26, 1987	1,121	287.342			-1.13
July 27, 1987	1,152	287.325	288,788	1.463	-1,33
August 28, 1987	1,183	283.786			-1.36
September 28, 1987	1,215	288.786			-1.36
October 29, 1987	1,246	288.780			-1.43
November 25, 1987	1,277	288.779			-1.44
December 28, 1987	1,337	288.777 288.772			-1.46
March 31, 1988	1,431	288.764			-1.52
April 22, 1988	1,453	288,763			-1.62
May 23, 1988	1,484	288,762	— <u> </u>		-1.63
June 30, 1988	1,522	288.762			-1.64
August 1, 1988	1,554	288.759			-1.64
August 29, 1988	1,582	288.760			-1.68
					-1.67
eptember 29, 1988	1,613	288,760			-1.67

## T-CLC. 2-00006, Per. 0

Savannah River Site Settlement of Defense Waste Processing Facility (U) K-ESR-S-00005, Rev. 0 September 2002 Appendix F Page F- 56

	Days	Monument	Transferred	Elevation	Settlement	
Date	since	elevation	elevation	difference		Notes
	May 1, 1984	(feet MSL)	_(feet MSL)	(feet)	(Inches)	
		221-S	Monument	Point 37 (con	tinued)	
November 28, 1988		288.755			-1.73	
December 9, 1988		288.752			-1.76	
January 9, 1989		_288.755			-1.73	
February 9, 1989		288.755			-1.73	
March 9, 1989		288.752			-1.76	
April 9, 1989		288.751			-1.78	
May 9, 1989		288.750		ł	-1.79	
June 9, 1989	1,866	288.748		!	-1.81	I
July 9, 1989	1,896	288.749			-1.80	
October 9, 1989	1,988	288.748			-1.81	
January 17, 1990	2,088	288.748			-1.81	
April 9, 1990	2,170	288.748			-1.81	
October 9, 1990	2,353	288.742			-1.88	
April 12, 1991	2,538	288.739			-1.92	
July 23, 1994	3,736	288.734			-1.98	
April 26, 1997	4,744	288.730			-2.03	
April 29, 1998	5,112	288.733	,		-1.99	
April 17, 1999	5,465	288.731	288.729	-0.002	-2.02	based on point 14 & 35
April 1, 2000		288.731			-2.02	Ĭ
April 21, 2001		288.728			-2.03	<u> </u>
April 13, 2002	6,557	288.727			-2.05	



Savannah River Site Settlement of Defense Waste Processing Facility Vitrification Building (U)

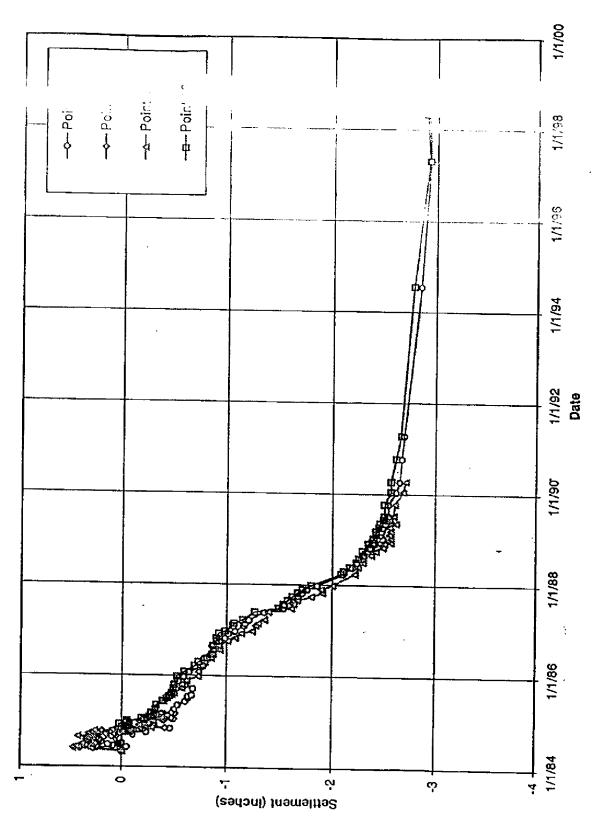
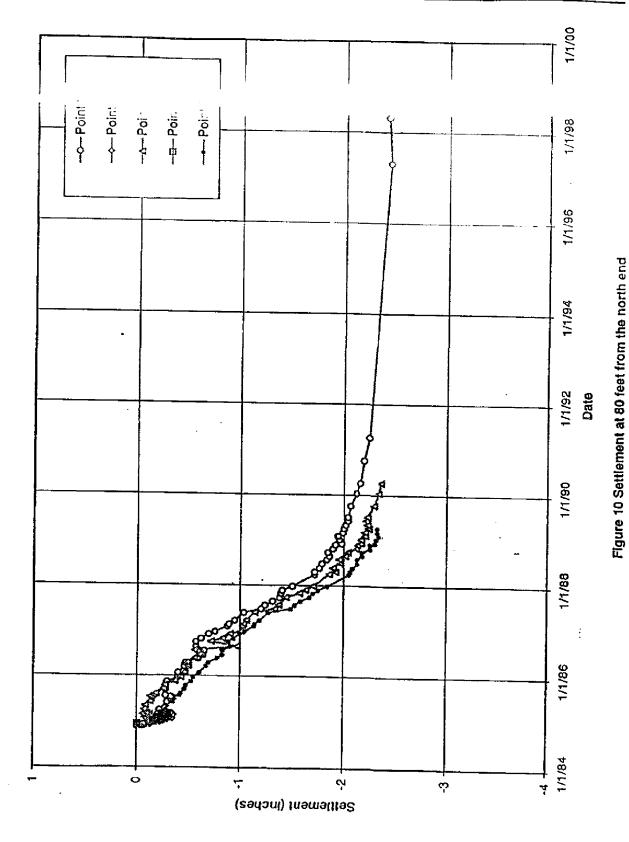


Figure 9 Settlement at 30 feet from the north end

Savannah River Site
Settlement of Defense Waste Processing Facility
Vitrification Building (U)

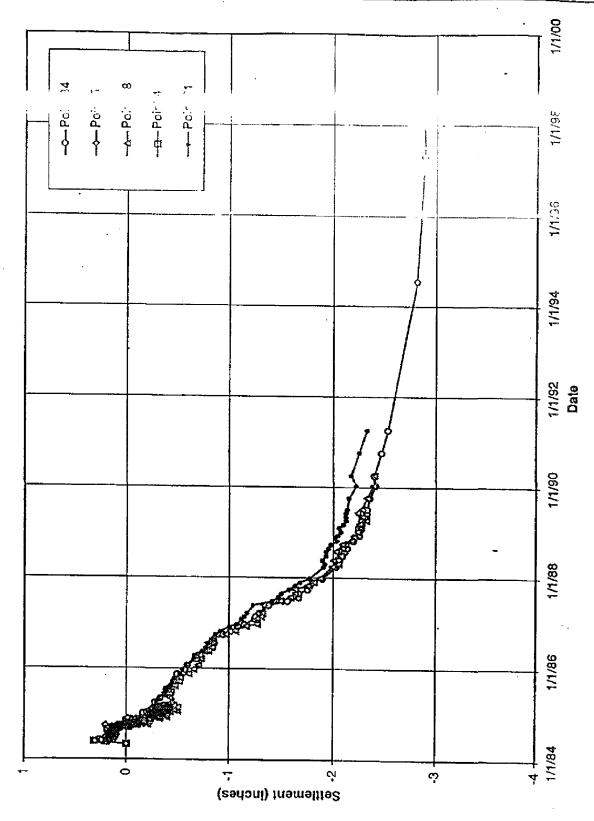
K-ESR-S-00002, Rev. 0 September 1998

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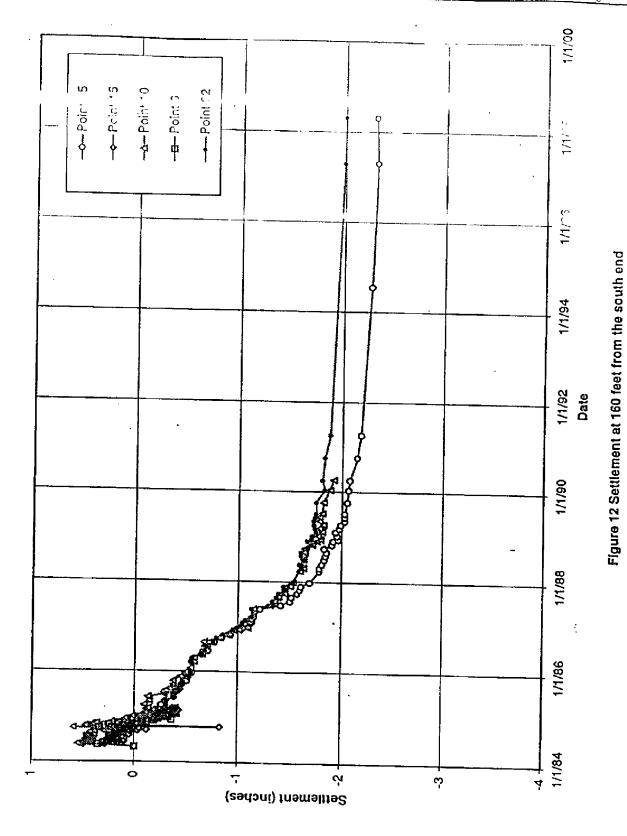
Figure 11 Settlement at 140 feet from the north end



Savannah River Site
Settlement of Defense Waste Processing Facility
Vitrification Building (U)

K-ESR-S-00002, Rev. 0 September 1,00

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### Calculation Continuation Sheet

Calculation Continuation Sneet				
Calculation No.	Sheet No.	Rev.		
T-CLC-Z-00006	336	0		
	APPENDIX C			
C	losure Cap Configuration	on		
<u> </u>				

#### Saltstone Disposal Facility (SDF) Closure Cap Configuration Vault Loading Information, Revision 2 Mark A. Phifer April 2, 2003

This revision is based upon the closure cap, drainage system configuration shown in Figure 1, which was selected as the base case configuration during the April 2, 2003 Saltstone PA Core Team meeting.

A typical Saltstone vault is 600 ft long by 200 ft wide with an assumed distance of 50 ft between vaults in each row. The apex of the vault roof runs lengthwise (i.e. 600 ft) down its center, and the roof is sloped at 2 percent from the apex to the vault side, which results in a slope length of 100 ft over the vault itself. The vault roof slope and slope length will propagate upward from the vault roof to the first backfill layer overlaying the roof. This backfill layer will be used to change the direction of slope by 90 degrees, to produce the closure cap apex which runs widthwise (i.e. 200 ft) down its center, to increase the slope length to 300 ft, and to increase the slope to 3 percent over the vault itself. The slope and slope length of this backfill layer will propagate upward to the ground surface (WSRC 2000 and WSRC 2002a).

Table 1 provides the current Saltstone Disposal Facility (SDF) kaolin closure cap configuration (WSRC 2000; WSRC 2002a; WSRC 2002b) along with the replacement geosynthetic clay layer (GCL) closure cap configuration that will be used in the revised Performance Assessment. Only the replacement GCL closure cap will be considered further. Table 1 provides the thickness of each layer and the overall total minimum thickness. As indicated above the thickness of the first backfill layer overlaying the vault roof will vary to accommodate the 2 percent slope of the vault roof and the 3 percent slope of the closure cap top surface.

Table 2 and Figure 2, together, provide information on the variation in the first backfill layer's thickness relative to its position over the top of the vault. See Figure 2 for the location relative to the top of the vault, and Table 2 provides the thickness of the first backfill layer. This results in the total closure cap thicknesses over the vault as shown in Table 3. See Figure 2 for the location relative to the top of the vault

Table 4 provides recommended wet bulk densities for use in conjunction with the layer thicknesses to determine the soil loading on top of the Saltstone Vault. The geotextile fabric and GCL wet bulk densities are given in pounds per square foot, since both materials come in rolls which are unrolled in place during installation.

Figure 1

## Saltstone Facility Layout Conceptual Drainage System Configuration #2

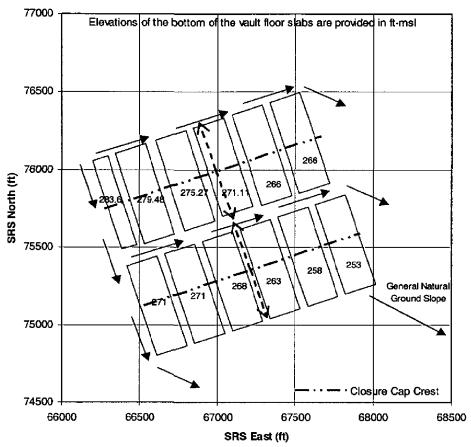


Table 1 Closure Cap Layer Thicknesses

Current Kaoli	n Closure Cap	Replacement G	CL Closure Cap
Layer	Thickness, feet	Layer	Thickness, feet
	(meters)		(meters)
Topsoil	0.5 (0.15)	Topsoil	0.5 (0.15)
Backfill	2.5 (0.76)	Backfill	2.5 (0.76)
Drainage Layer	1 (0.3)	Erosion Barrier	1 (0.3)
Kaolin Layer	2.5 (0.76)	Drainage Layer ²	1 (0.3)
Backfill (i.e. first	Variable thickness ¹ ;	GCL	0.0167 (0.005)
backfill layer)	minimum: 1 (0.3)		
Drainage Layer	0.5 (0.15)	Backfill (i.e. first	variable thickness 1;
		backfill layer)	minimum: 7.467
			(2.28)
Kaolin Layer	1.67 (0.5)	Drainage Layer ²	0.5 (0.15)
Grout	3.33 (1.0)	GCL	0.0167 (0.005)
Total Minimum	13.0 (3.92)	Total Minimum	13.0 (3.92)
Thickness		Thickness	

Table 2 Thickness of First Backfill Layer

Location Over Vault (see Figure 1)	First Backfill Layer Thickness, feet (meters)
1 & 3	9.467 (2.88)
2	7.467 (2.28)
4 & 6	18.467 (5.63)
5	16.467 (5.02)

¹ See Table 2 and Figure 1
² A geotextile fabric will be placed above the drainage layers to prevent the infiltration of fines into the layer.

Figure 2
Position Over Vault

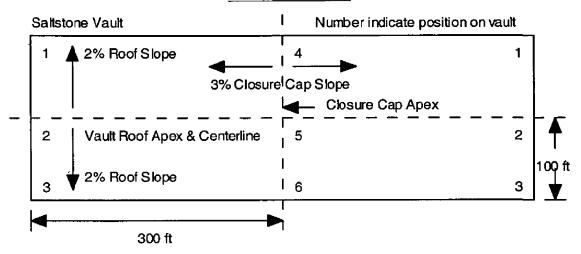


Table 3
Total Closure Cap Thickness

Location Over Vault (see Figure 1)	Total Closure Cap Thickness, feet (meters)
1 & 3	15.00 (4.57)
2	13.0 (3.92)
4 & 6	24.0 (7.32)
5	22.0 (6.70)

Table 4

<u>Recommended Wet Bulk Densities</u>

(Data derived from WSRC 2002c, WSRC 2002d, and)

Layer	Dry Bulk Density (pcf)	Volumetric Moisture Content ⁴ (V/V)	Gravimetric Moisture Content (M _w /M _s )	Wet Bulk Density (pcf)
Topsoil ¹	90	0.2757	0.1912	107.2
Backfill 1	104	0.2982	0.1789	122.6
Erosion Barrier ²	105	0.0941	0.0559	110.9
Geotextile Fabric ³	-	-	-	0.07 psf
Drainage Layer	105	0.1764	0.1048	116.0
GCL 3	_	0.75	-	2 psf

^TDerived from WSRC 2002c and WSRC 2002d

² Default Soil Texture Class # 21 (poorly graded gravel per the USCS) from EPA 1994

- ³ Obtained from the following GSE web sites:
  - www.gseworld.com/global/UnitedStates/Products/NonwovenGeotextile/index.htm for GSE Nonwoven Geotextile NW10
  - www.gseworld.com/global/UnitedStates/Products/Bentofix/Index.htm for GSE Bentofix[®] NS

#### References:

EPA 1994. The Hydrologic Evaluation of Landfill Performance (HELP) Model Engineering Documentation for Version 3, (EPA/600/R-94/168b). United States Environmental Protection Agency, Office of Research and Development, Washington, DC. September 1994.

WSRC 2000. Closure Plan for the Z-Area Saltstone Disposal Facility (U), Rev. 0 (WSRC-RP-2000-00426). Westinghouse Savannah River Company, Aiken, South Carolina. September 29, 2000.

WSRC 2002a. Saltstone Landfill Design Equivalency Demonstration (U), Rev. 0 (WSRC-TR-2002-00236). Westinghouse Savannah River Company, Aiken, South Carolina. August 30, 2002.

WSRC 2002b. Special Analysis: Reevaluation of the Inadvertent Intruder, Groundwater, Air, and Radon Analyses for the Saltstone Disposal Facility, Draft (WSRC-TR-2002-00456). Westinghouse Savannah River Company, Aiken, South Carolina. October 2002.

WSRC 2002c. Closure Plan for the E-area Low-Level Waste Facility, Rev. 2, (WSRC-RP-2000-00425). Westinghouse Savannah River Company, Aiken, SC 29808. September 2, 2002.

WSRC 2002d. Corrosion and Potential Subsidence Scenarios for Buried B-25 Waste Containers (U), (WSRC-TR-2002-00354). Westinghouse Savannah River Company, Aiken, SC 29808. September 2002.

⁴ Obtained from HELP Model Run of Saltstone Closure Cap per Table 1

(	Calculation Continuation S	Sheet
Calculation No.	Sheet No.	Rev.
T-CLC-Z-00006	342	0
	APPENDIX D	
SGS Geot	technical Data for Different	tial Settlement
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#### **WESTINGHOUSE SAVANNAH RIVER COMPANY** INTEROFFICE MEMORANDUM

FIELD SUPPORT SERVICES GEOTECHNICAL ENGINEERING DEPARTMENT

May 1, 2003

FSS-GED-2003-00005

TO: W. L. Peregoy, 730-1B-3078

G. E; Mertz, 730-1B-314

FROM: M. D. McHood, 730-2B-1070

#### GEOTECHNICAL INPUT FOR SALTSTONE VAULT NO. 4 STRUCTURAL ANALYSIS

Geotechnical Engineering has estimated dynamic settlement for Saltstone Vault No. 4 due to Performance Category 3 (PC3) and Performance Category 4 (PC4) earthquakes. Site specific geotechnical data used for the seismic evaluation includes six Seismic Piezocone Penetrometer (SCPTu) soundings performed in June of 2002. In addition, historical geotechnical data and reports were reviewed to provide estimated static settlement due to primary consolidation (within years of construction) and secondary consolidation (long term creep). This memo summarizes our work.

Dynamic settlement due to seismic loading is documented in calculation K-CLC-Z-0004. Both the PC3 and PC4 event were evaluated at six SCPTu locations around the perimeter of Vault No. 4. The six SCPTu were pushed to refusal (between elevations 185 and 160 ft msl). Standard Penetration Test data collected beneath Vault No. 4 show that the Santee Formation is very dense (top of Santee at approximately elevation 185 ft msl). Therefore, no softzone settlement is expected during a seismic event. Any dynamic settlement would be due to liquefaction or partial liquefaction. Calculated dynamic settlements (rounded to the nearest ¼ inch) at the six SCPTu locations are summarized below.

	PC3	PC4
<b>SCPTu</b>	Settlement	Settlement
ID	(inch)	(inch)
ZCP-22	1/2	3
ZCP-23	1/4	11/2
ZCP-24	1/2	21/4
ZCP-25	1/4	11/2
ZCP-26	1/2	2
ZCP-27	1	4

OSR 31-688# (Rev 4-11-2000)

Stores: 26-8910.00

Page 2 of 2

Settlement due to liquefaction and partial liquefaction for the PC3 (2,500 year) earthquake ranges from ¼ to 1 inch. Settlement due to liquefaction and partial liquefaction for the PC4 (10,000 year) earthquake ranges from 1½ to 4 inches. Differential dynamic settlement can be taken as the maximum minus the minimum for a given earthquake. The differential settlement is expected to occur over the width of the facility.

Static settlement due to primary consolidation was calculated by Mueser Rutledge Consulting Engineers (MRCE) in their report titled "Saltstone Disposal Z-Area Savannah River Plant," #6329, dated October 14, 1986. The MRCE static settlement calculations assume the vaults are filled with saltstone and capped with about 20 feet of feet of soil, resulting in a final vault subgrade loading of 3.2 tons per square foot. Static settlements vary between 4.3 inches at the center and 2.5 inches at the end of the short side.

Static settlement due to secondary consolidation is estimated based on data collected at the Defense Waste Processing Facility (DWPF). Average loading for DWPF is about 2.5 to 2.8 tons per square foot. The settlement summary report titled "Settlement of Defense Waste Processing Facility," Report No. K-ESR-S-00005, dated September 30, 2002 gives a current rate of settlement of  $\frac{1}{2}$  to 1 inch of settlement per log cycle of time (time in days). Based on the settlement data, the rate of settlement due to secondary consolidation, or current rate of settlement, started between 2,000 and 4,000 days. The settlement due to secondary consolidation at 10,000 years (3,650,000 days) would be about 3 log cycles [log(3,650,000 days) – log(3,650 days)], or  $\frac{1}{2}$  to 3 inches. Settlement due to secondary consolidation is expected to be relatively even across the vault.

If you have any questions please call me at ext. 2-6949 or Mike Lewis at ext. 2-6847.

c: M. R. Lewis, 730-2B-116 GED Files, 730-2B-1102



#### DRAFT

## WESTINGHOUSE SAVANNAH RIVER COMPANY INTEROFFICE MEMORANDUM

FIELD SUPPORT SERVICES
GEOTECHNICAL ENGINEERING DEPARTMENT

April ??, 2003

FSS-GED-2003-DRAFT

TO: W. L. Peregoy, 730-1B-3078 G. E; Mertz, 730-1B-314

FROM: M. D. McHood, 730-2B-1070

#### GEOTECHNICAL INPUT FOR SALTSTONE VAULT NO. 4 STRUCTURAL ANALYSIS

Geotechnical Engineering has estimated dynamic settlement for Saltstone Vault No. 4 due to Performance Category 3 (PC3) and Performance Category 4 (PC4) earthquakes. Site specific geotechnical data used for the seismic evaluation includes six Seismic Piezocone Penetrometer (SCPTu) soundings performed in June of 2002. In addition, historical geotechnical data and reports were reviewed to provide estimated static settlement due to primary consolidation (within years of construction) and secondary consolidation (long term creep). This memo summarizes our work.

Dynamic settlement due to seismic loading is documented in calculation K-CLC-Z-0004. Both the PC3 and PC4 event were evaluated at six SCPTu locations around the perimeter of Vault No. 4. The six SCPTu were pushed to refusal (between elevations 185 and 160 ft msl). Standard Penetration Test data collected beneath Vault No. 4 show that the Santee Formation is very dense (top of Santee at approximately elevation 185 ft msl). Therefore, no softzone settlement is expected during a seismic event. Any dynamic settlement would be due to liquefaction or partial liquefaction. Calculated dynamic settlements at the six SCPTu locations are summarized below.

SCPTu	PC3 Settlement	PC4 Settlement	
ID	(inch)	(inch)	
ZCP-22	0.60	3.04	
ZCP-23	0.28	1.60	
ZCP-24	0.41	2.33	<b>/</b> 1
ZCP-25	0.25	1.46 🦴	3.97-1146 = 2.51 vee 23/4"
ZCP-26	0.38)	1.99 )	3.97-11
ZCP-27	0.96	3.97/	wee
	0,96 -0.	25.0.11 26.0.11	

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Settlement due to liquefaction and partial liquefaction for the PC3 (2,500 year) earthquake ranges from ¼ to 1 inch. Settlement due to liquefaction and partial liquefaction for the PC4 (10,000 year) earthquake ranges from 1½ to 4 inches. Differential dynamic settlement would be the maximum minus the minimum for a given earthquake. The differential settlement is expected to occur over the width of the facility.

Static settlement due to primary consolidation was calculated by Mueser Rutledge Consulting Engineers (MRCE) in their report titled "Saltstone Disposal Z-Area Savannah River Plant," #6329, dated October 14, 1986. The MRCE static settlement calculations assume the vaults are filled with saltstone and capped with about 20 feet of feet of soil, resulting in a final vault subgrade loading of 3.2 tons per square foot. Static settlements vary between 4.3 inches at the center and 2.5 inches at the end of the short side.

Static settlement due to secondary consolidation is estimated based on data collected at the Defense Waste Processing Facility (DWPF). Average loading for DWPF is about 2.5 to 2.8 tons per square foot. The settlement summary report titled "Settlement of Defense Waste Processing Facility," Report No. K-ESR-S-00005, dated September 30, 2002 gives a current rate of settlement of ½ to 1 inch of settlement per log cycle of time (time in days). Based on the settlement data, the rate of settlement due to secondary consolidation, or current rate of settlement, started between 2,000 and 4,000 days. The settlement due to secondary consolidation at 10,000 years (3,650,000 days) would be about 3 log cycles [log(3,650,000 days) – log(3,650 days)], or 1½ to 3 inches. Settlement due to secondary consolidation is expected to be relatively even across the vault.

If you have any questions please call me at ext. 2-6949 or Mike Lewis at ext. 2-6847.

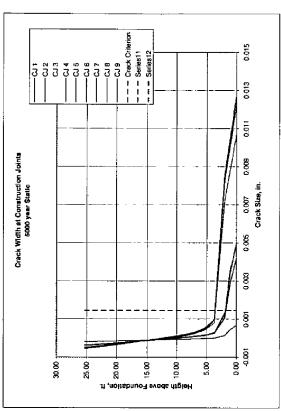
c: M. R. Lewis, 730-2B-116 GED Files, 730-2B-1102

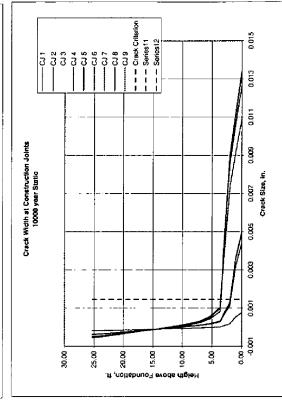
PC - 3 use 3/4"
PC - 4 use 23/4" (rounded up)

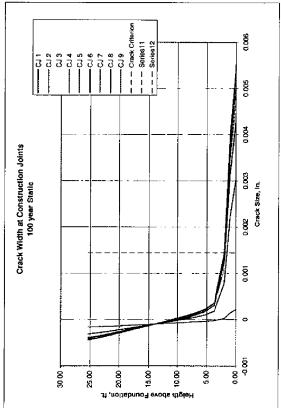
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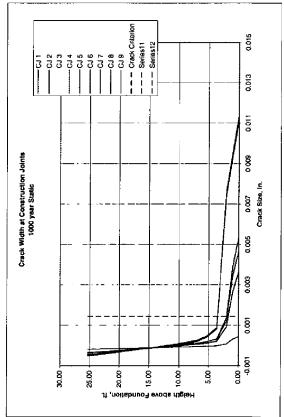
Calculation Continuation Sheet					
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Structural Analysis Desults					
Structural Analysis Results					

Static Settlement Low Soil Creep Properties

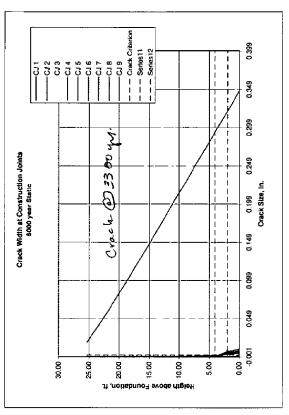


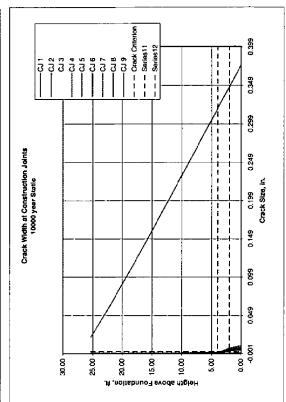


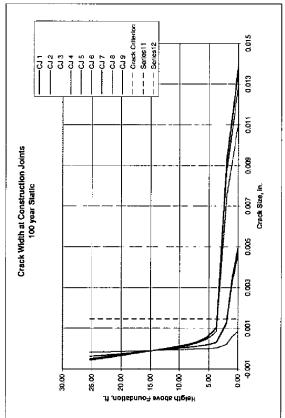


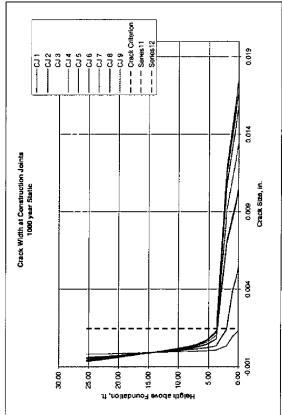


Static Settlement Mean Soil Modulus

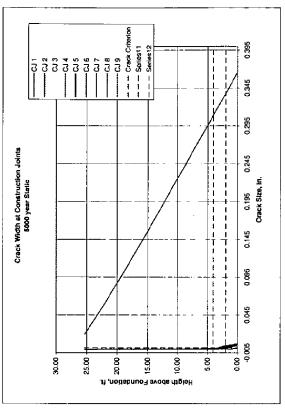


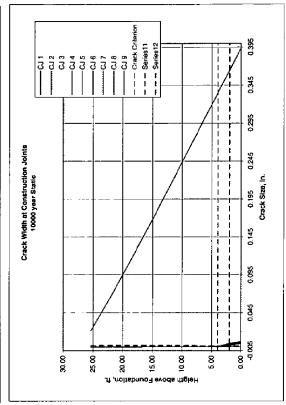


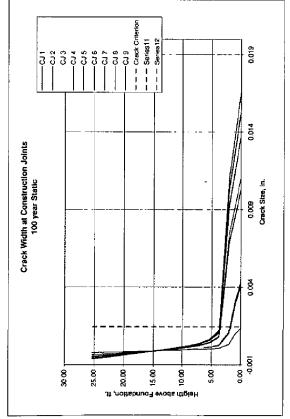


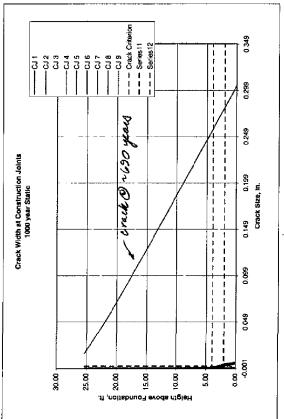


Static Settlement High Soil Modulus

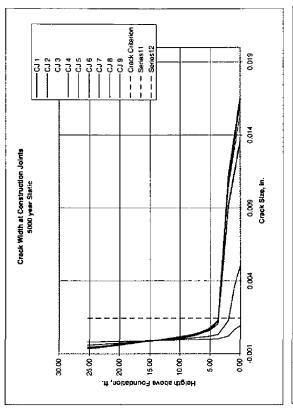


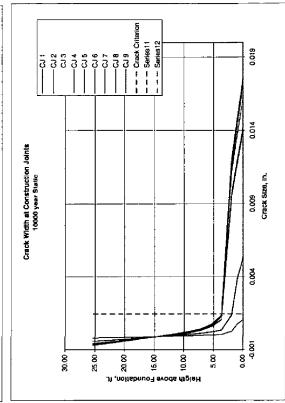


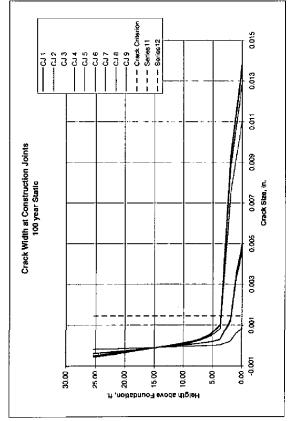


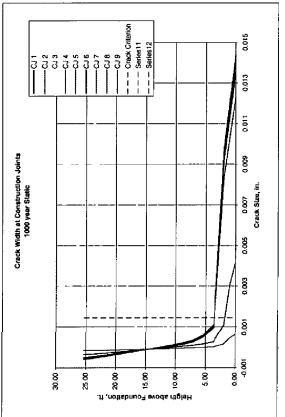


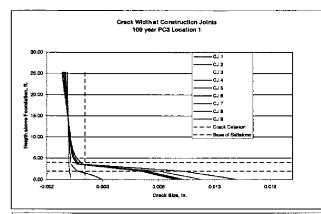
Static Settlement Low Soil Modulus

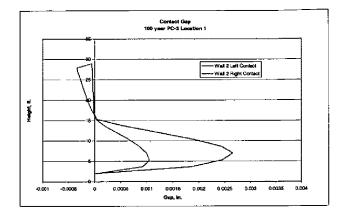


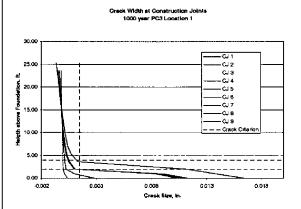


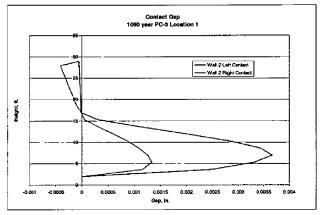


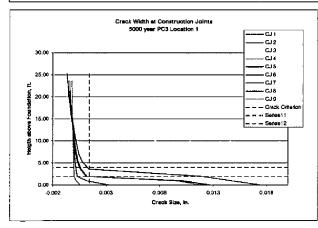


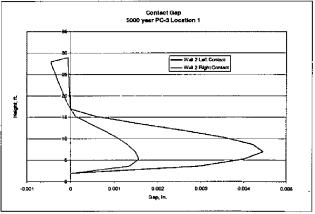


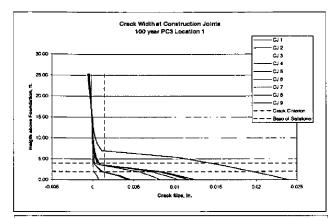


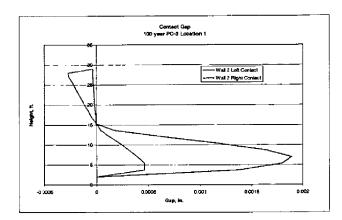


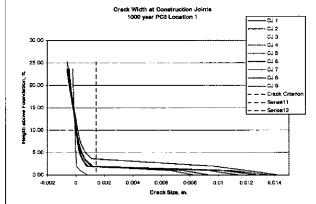


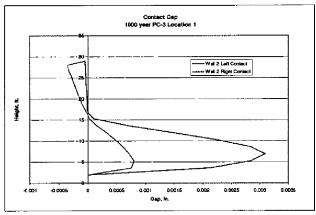


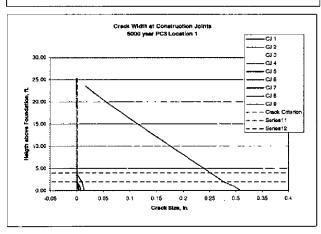


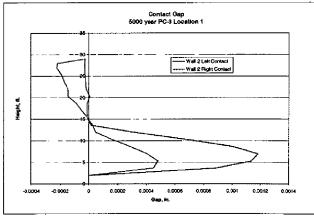


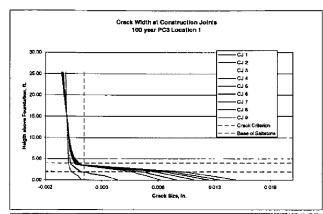


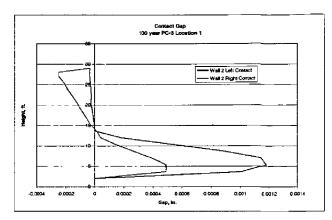


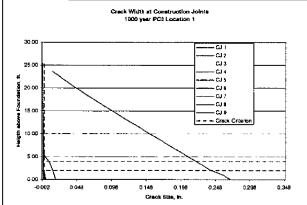


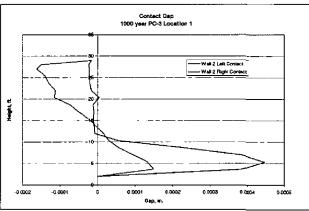


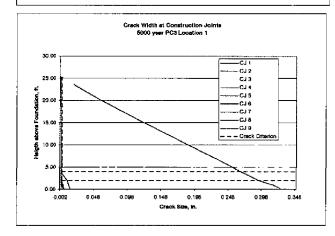


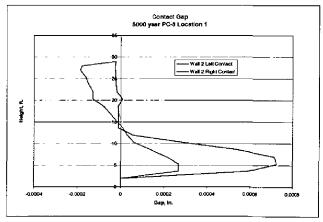




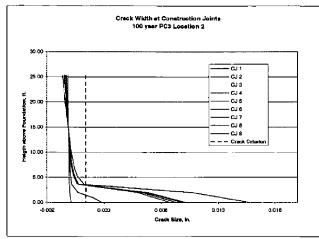


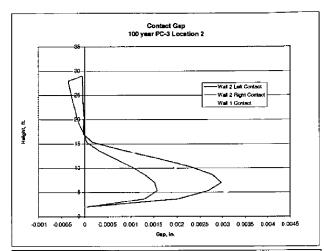


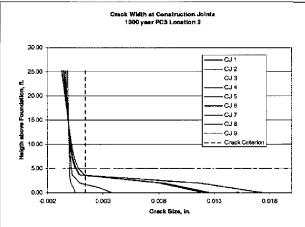


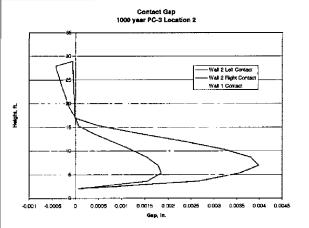


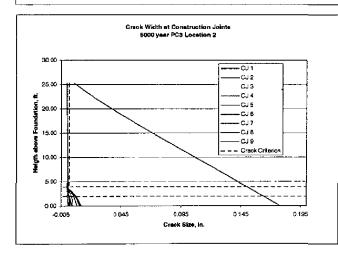
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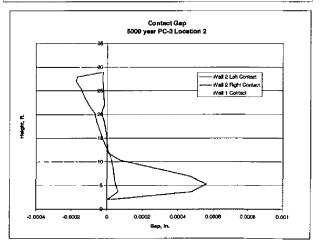




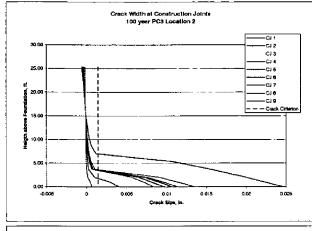


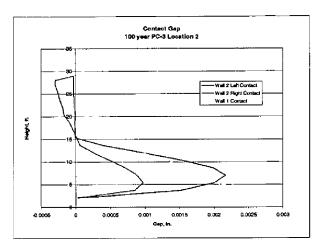


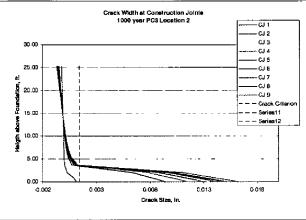


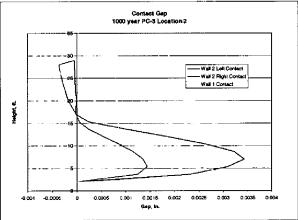


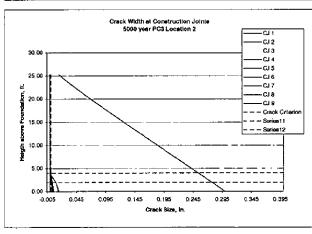
#### PC-3 Differential Settlement - Location 2 Mean Soil

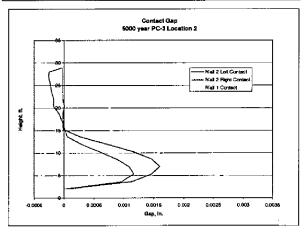




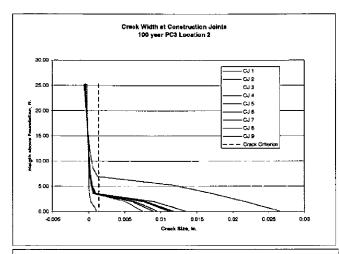


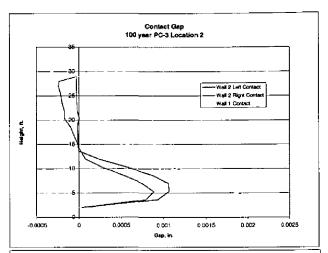


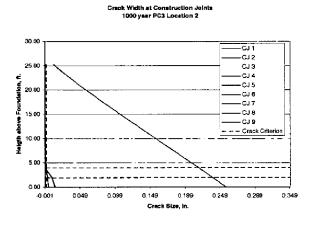


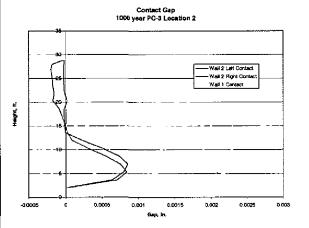


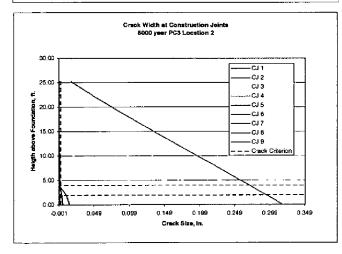
High Soil

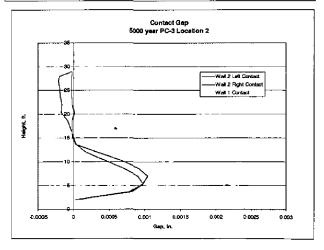




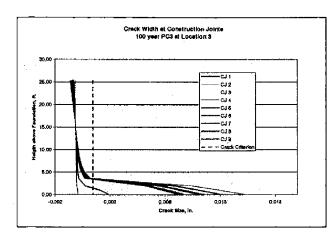


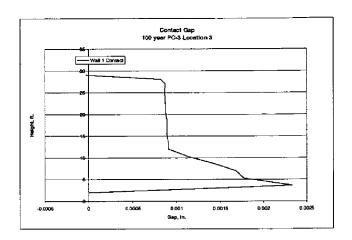


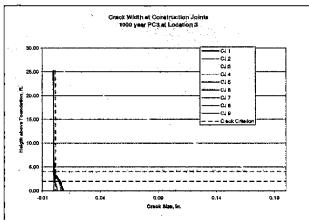


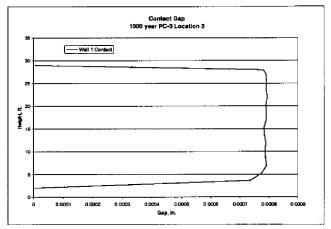


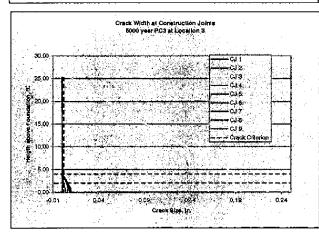
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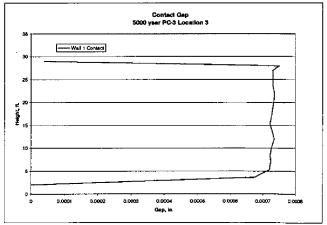




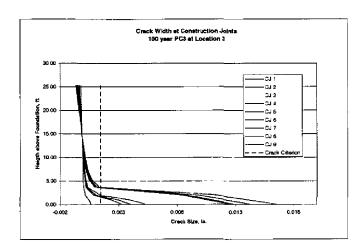


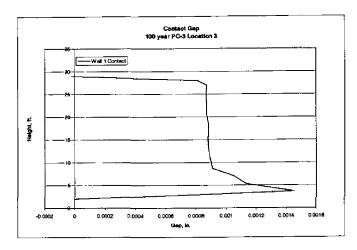


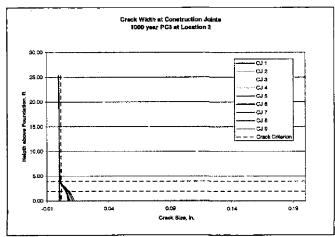


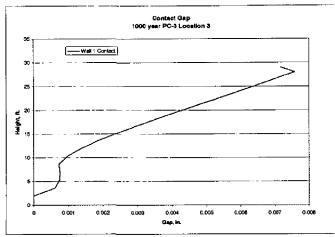


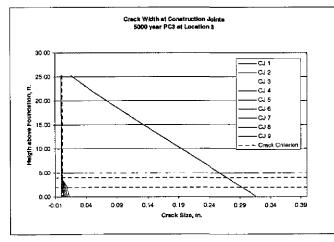
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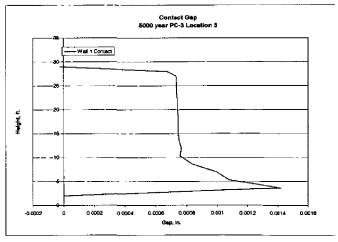




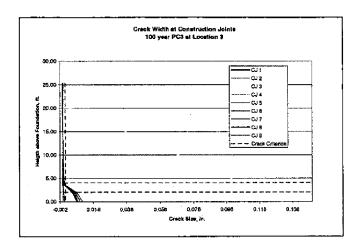


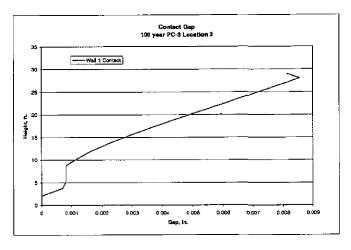


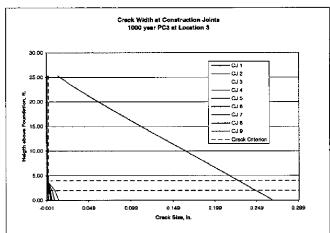


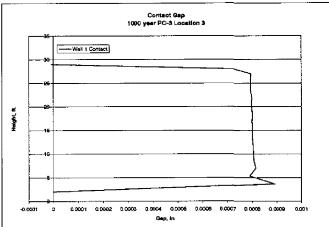


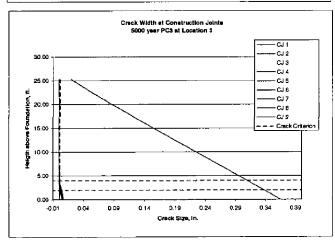
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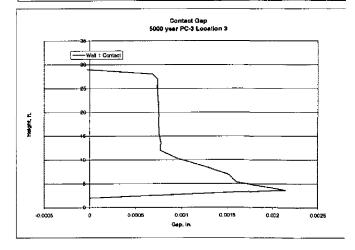




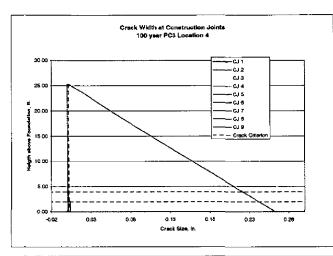


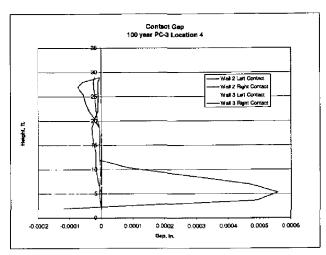


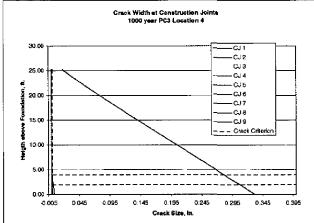


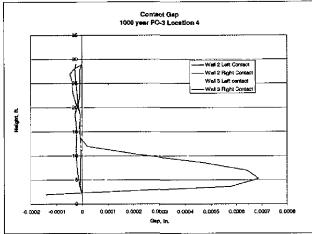


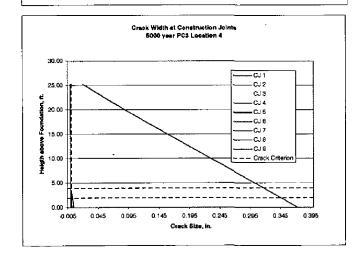
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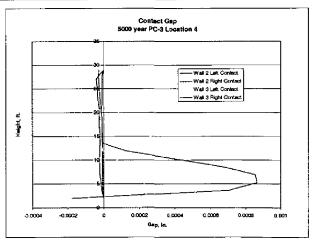




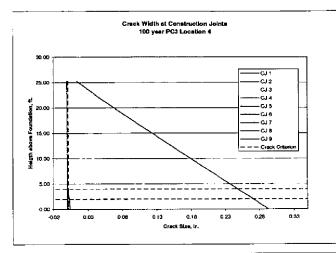


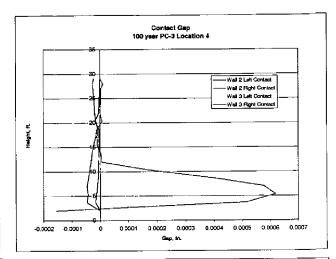


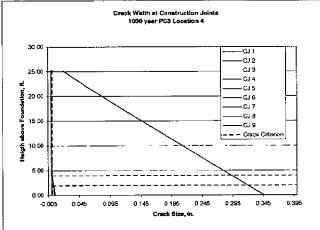


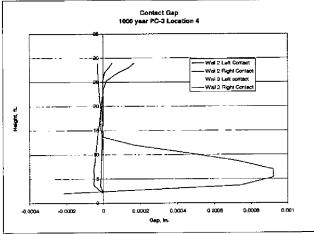


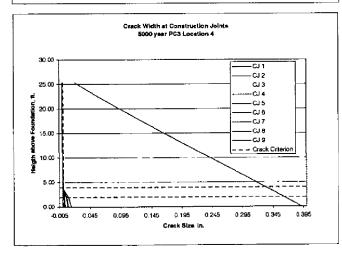
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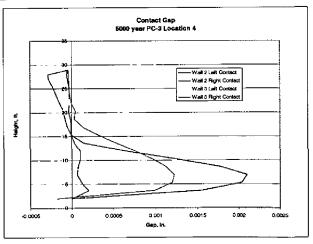




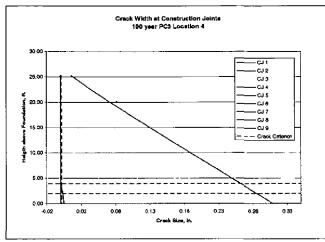


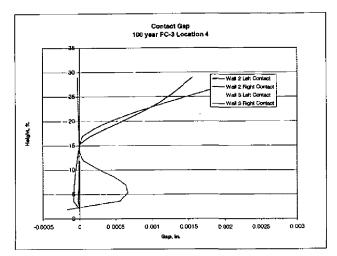


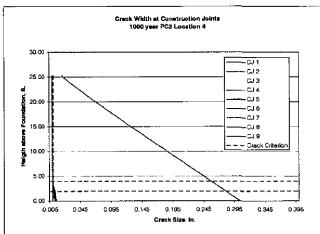


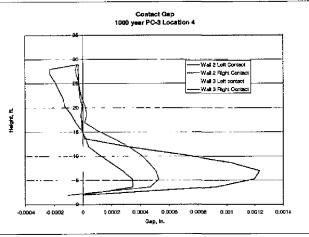


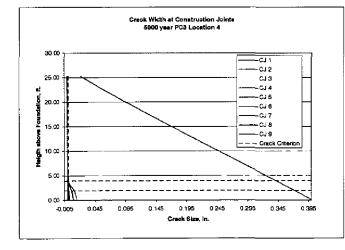
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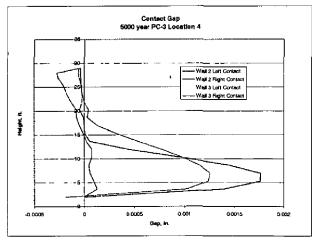




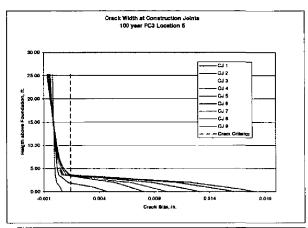


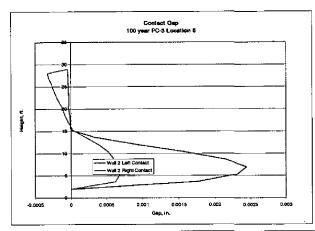


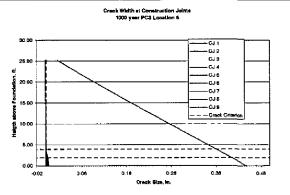


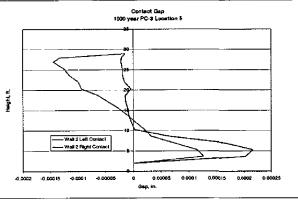


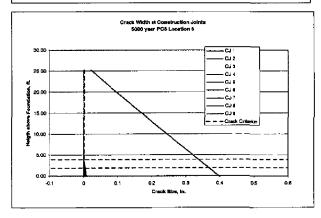
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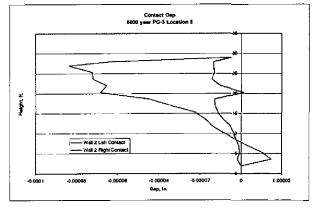




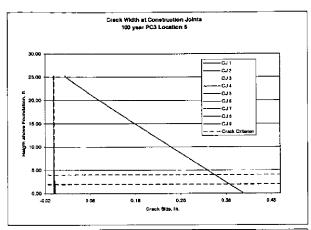


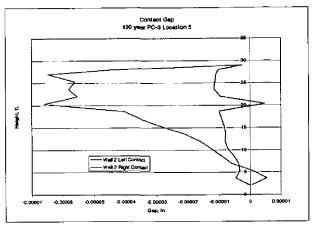


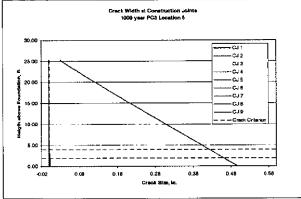


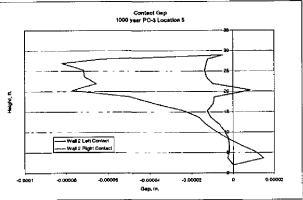


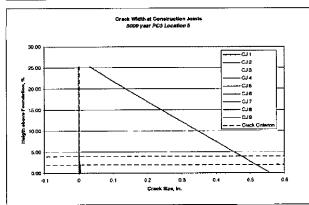
#### PC-3 Differential Settlement - Location 5 Mean Soil

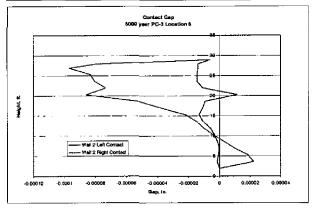




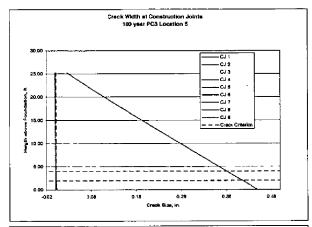


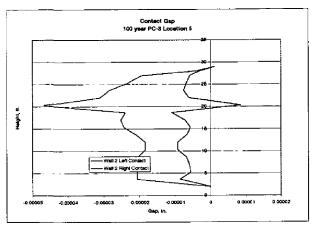


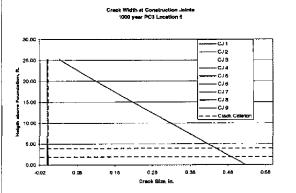


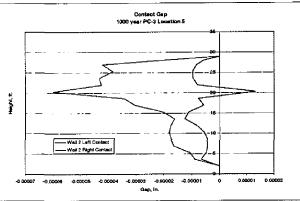


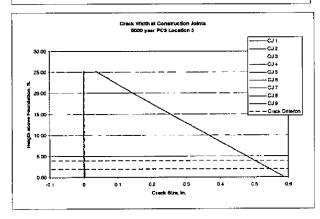
High Soil

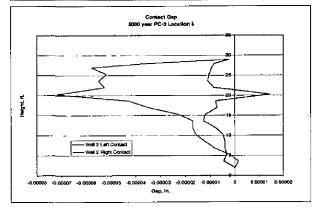




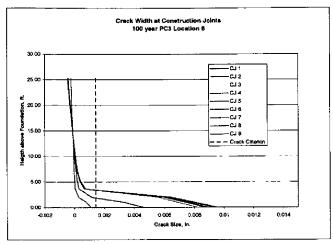


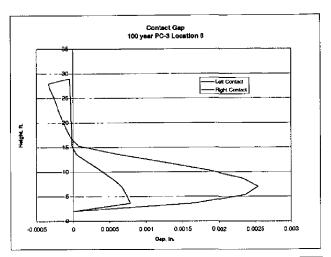


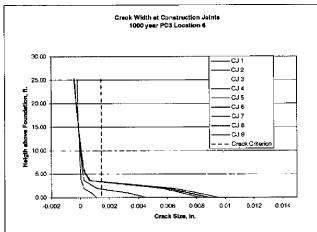


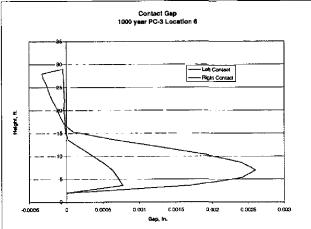


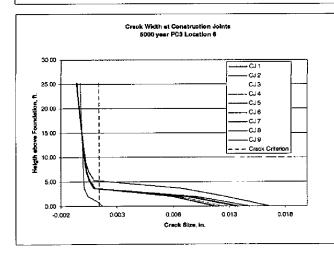
#### PC-3 Differential Settlement - Location 6 Low Soil

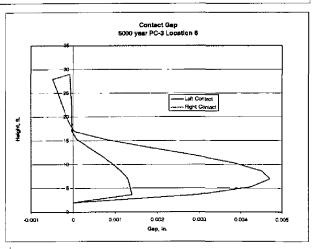






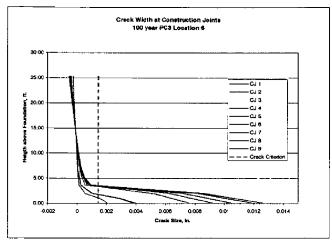


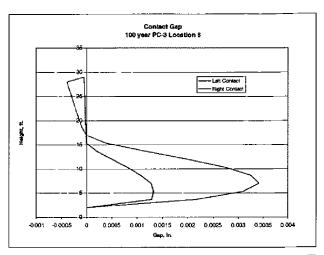


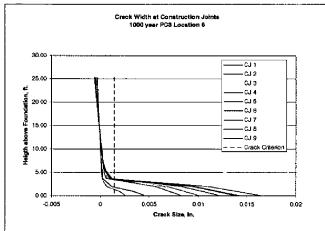


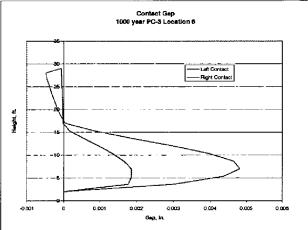
5/12/2003

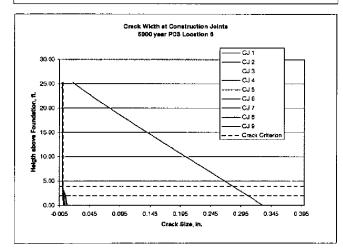
PC-3 Differential Settlement - Location 6 Mean Soil

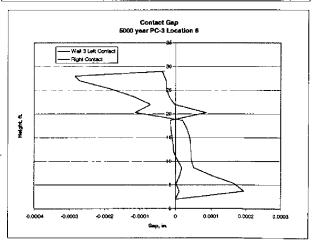




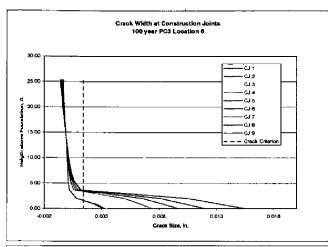


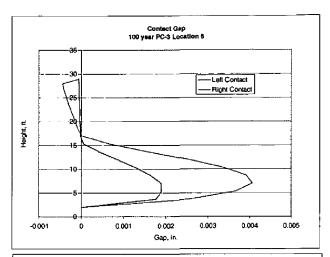


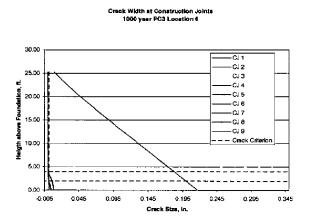


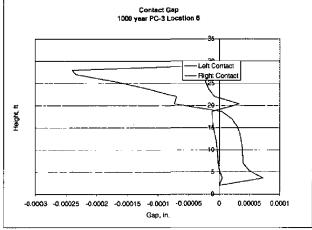


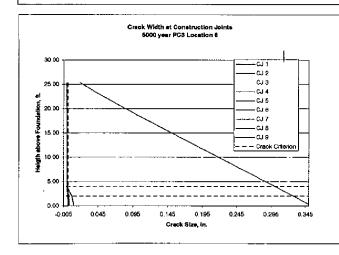
PC-3 Differential Settlement - Location 6 High Soil

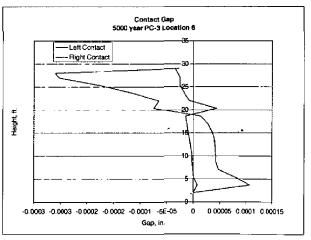




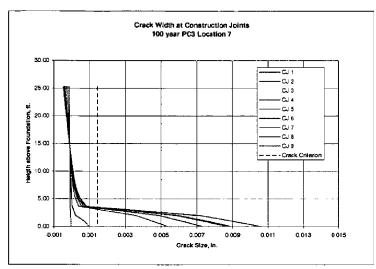


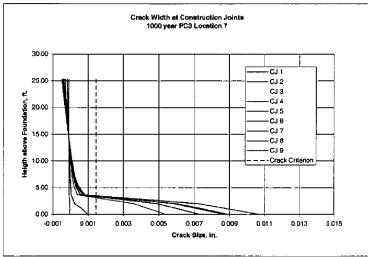


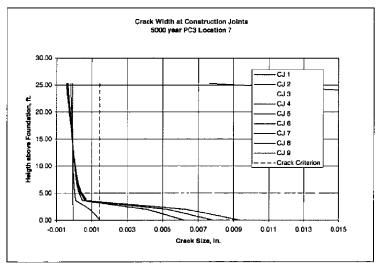




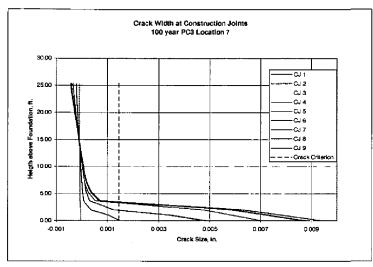
PC-3 Differential Settlement - Location 7 Low Soil

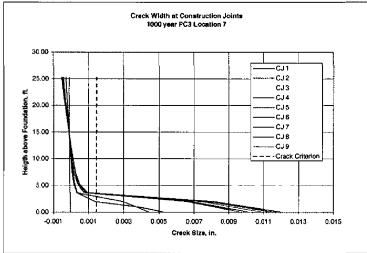


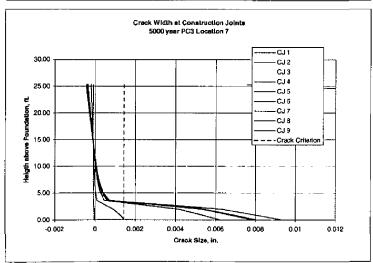




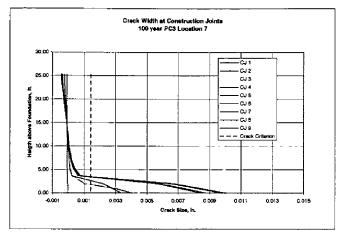
#### PC-3 Differential Settlement - Location 7 Mean Soil

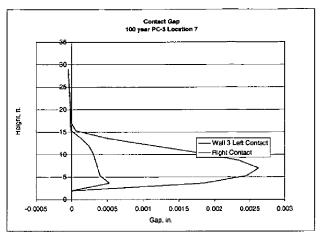


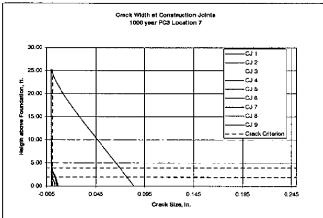


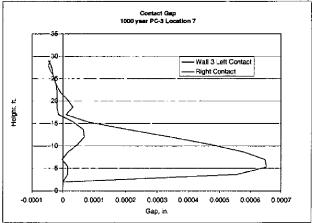


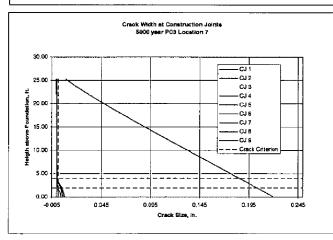
PC-3 Differential Settlement - Location 7 High Soil

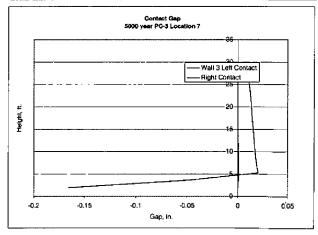






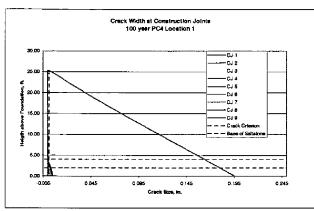


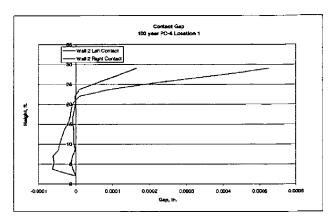


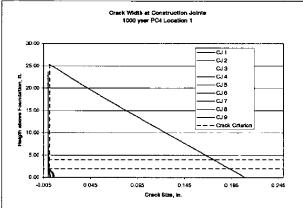


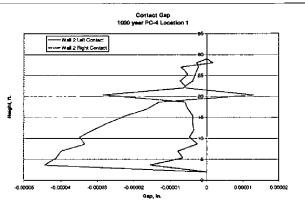
# T-CLC- Z-00006, Nes. O PC-4 Differential Settlement - Location 1

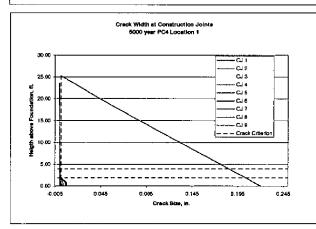
Low Soil

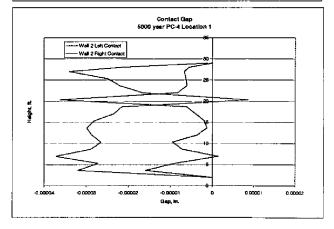




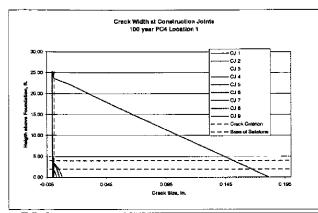


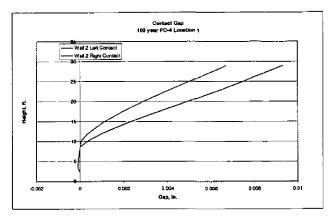


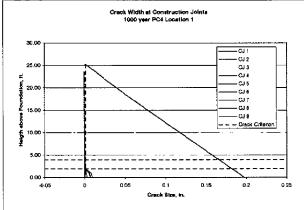


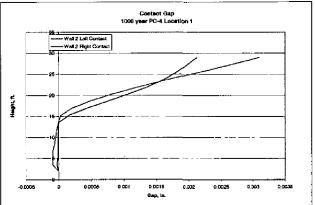


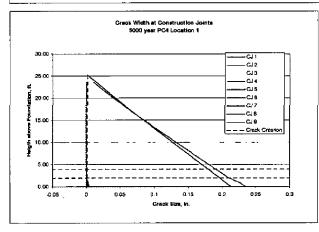
PC-4 Differential Settlement - Location 1 Mean Soil

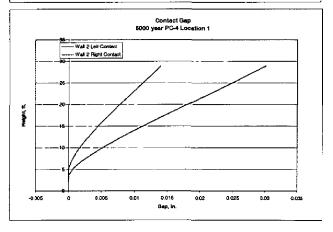




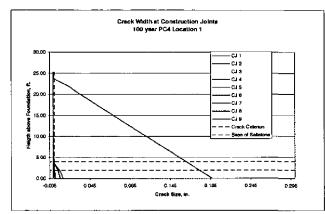


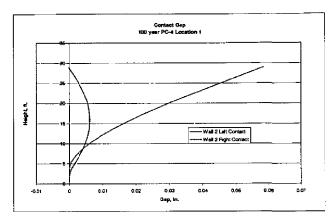


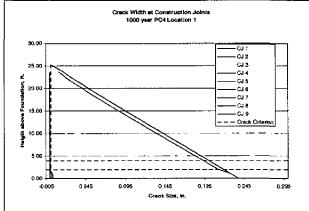


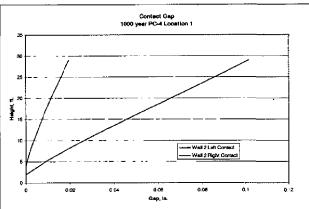


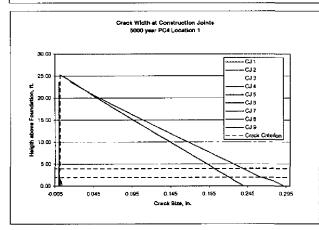
High Soil

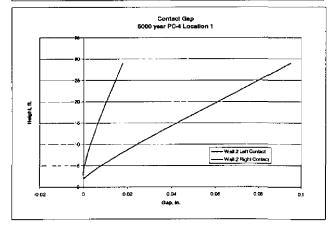




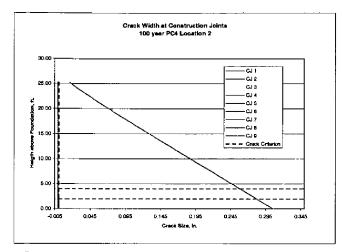


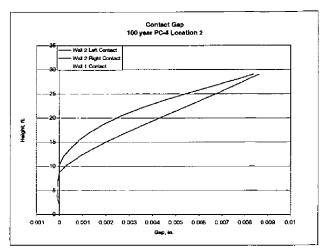


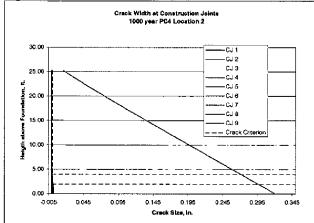


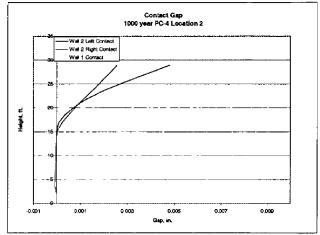


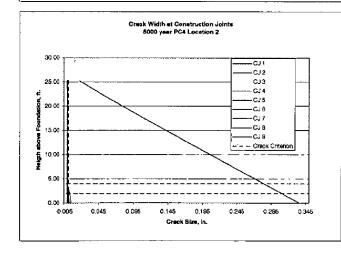
#### PC-4 Differential Settlement - Location 2 Low Soil

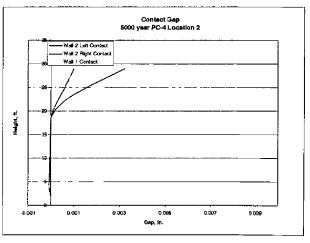




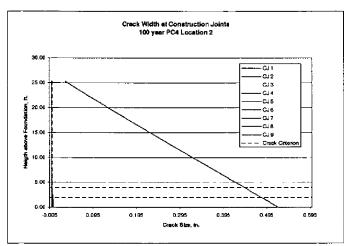


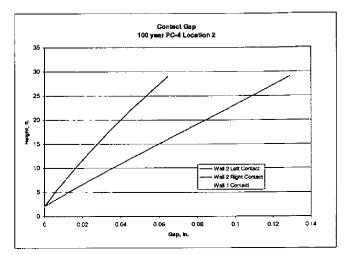


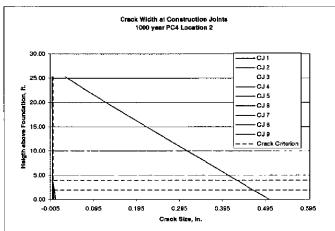


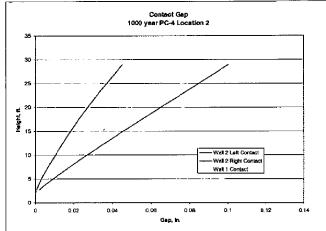


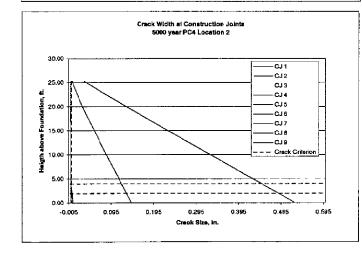
# Mean Soil

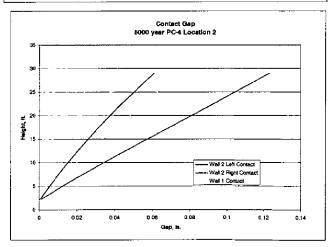




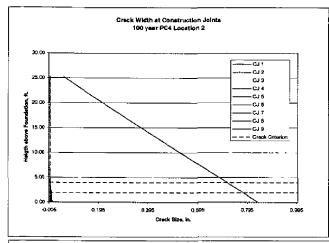


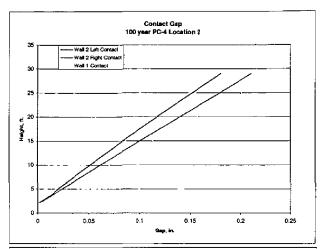


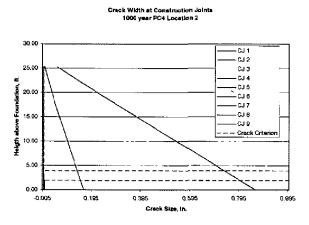


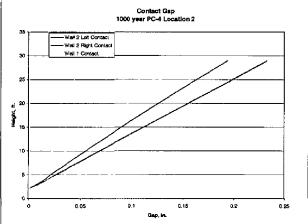


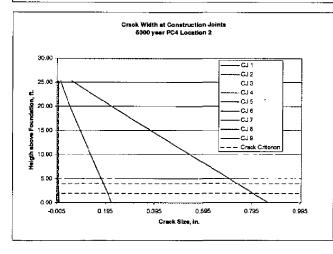
PC-4 Differential Settlement - Location 2 High Soil

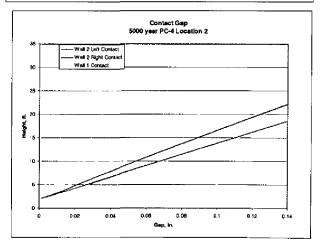




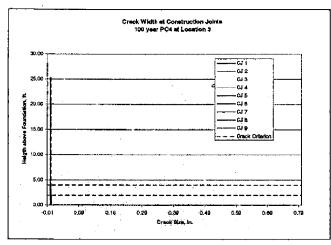


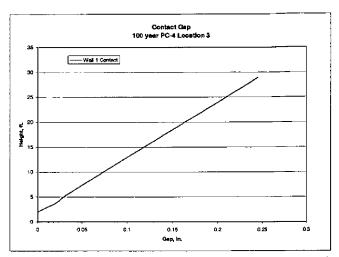


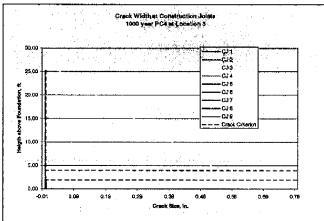


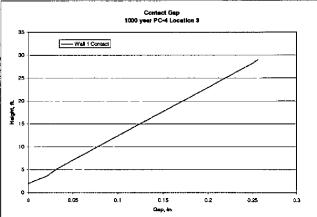


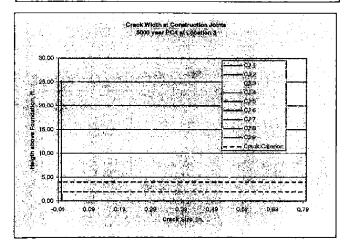
#### PC-4 Differential Settlement - Location 3 Low Soil

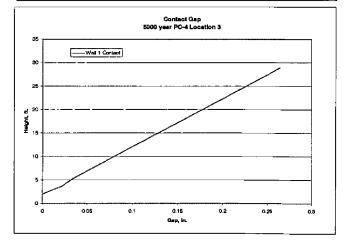




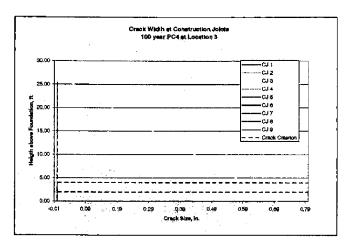


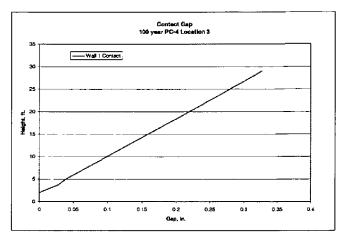


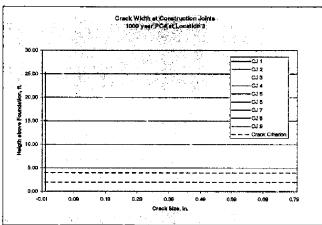


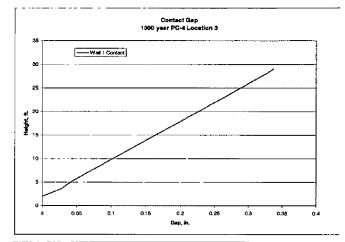


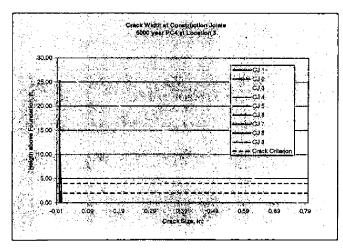
#### PC-4 Differential Settlement - Location 3 Mean Soil

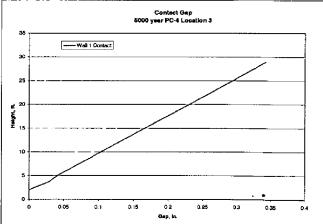




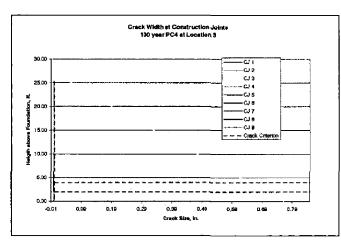


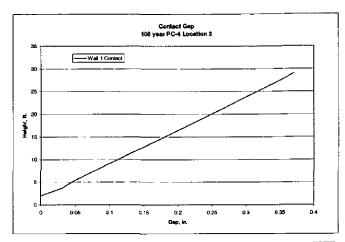


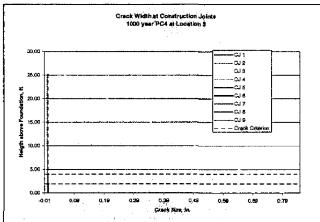


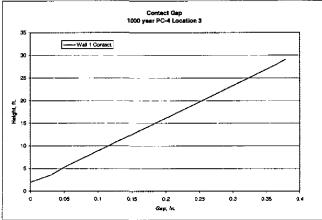


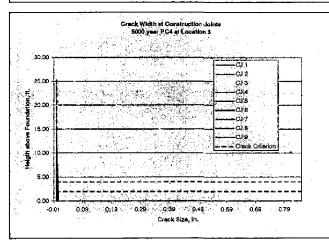
#### PC-4 Differential Settlement - Location 3 High Soil

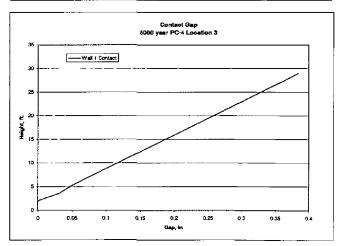


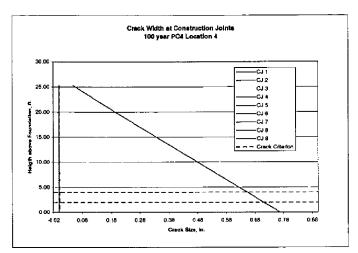


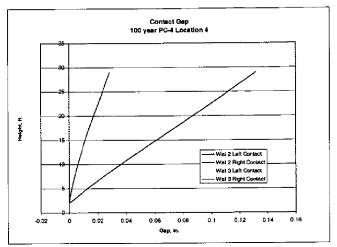


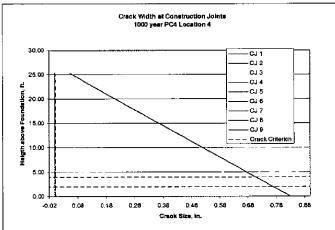


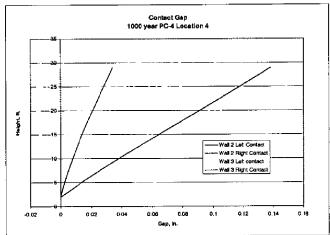


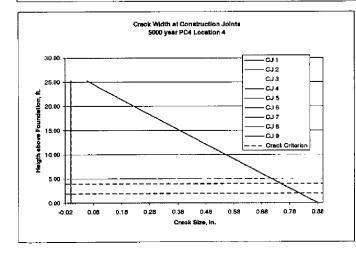


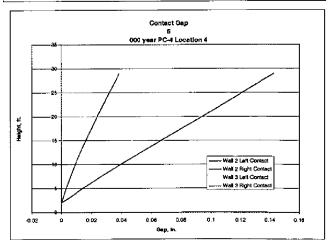




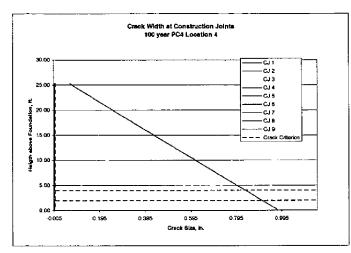


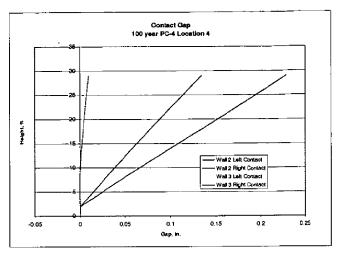


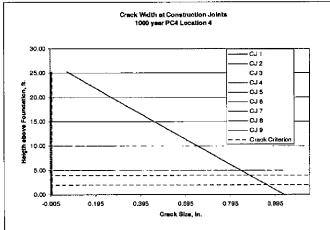


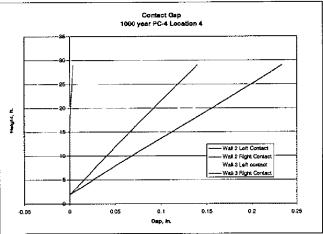


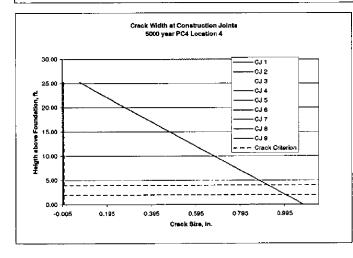
#### PC-4 Differential Settlement - Location 4 Mean Soil

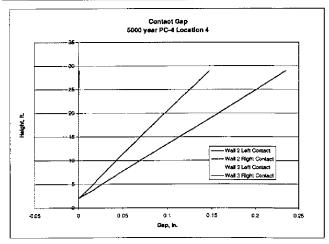




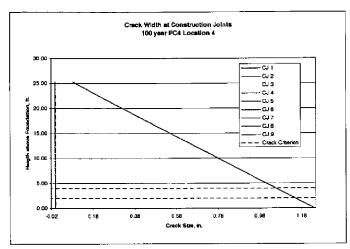


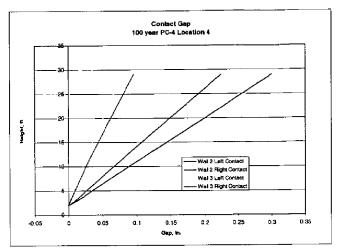


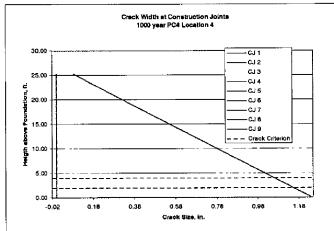


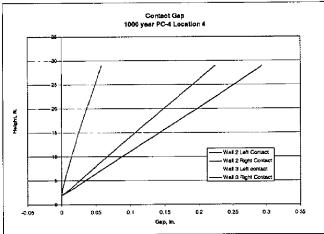


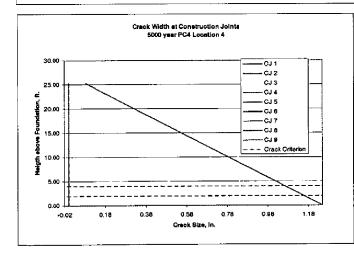
### T-CLC- 2 - 00006, Rev-0 PC-4 Differential Settlement - Location 4 High Soil

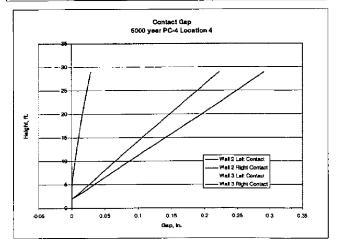




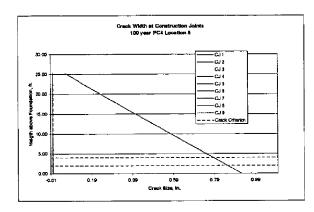


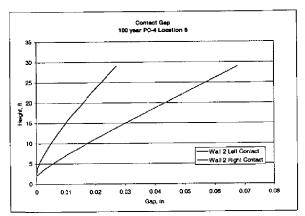


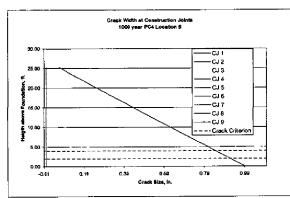


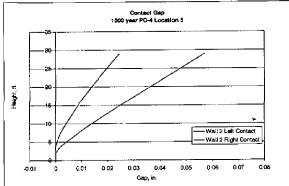


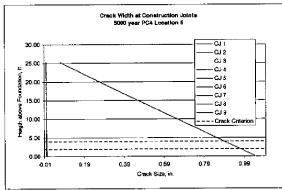
#### PC-4 Differential Settlement - Location 5 Low Soil

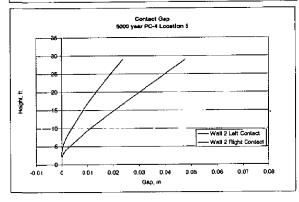




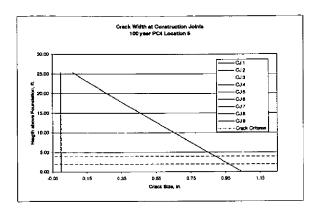


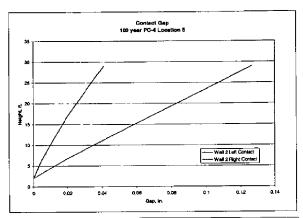


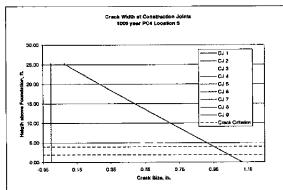


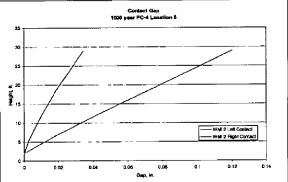


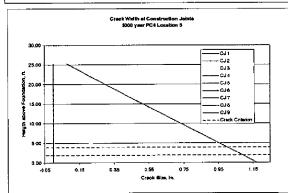
#### PC-4 Differential Settlement - Location 5 Mean Soil

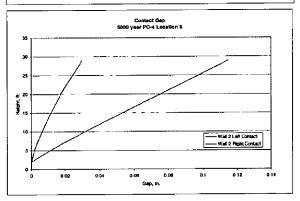




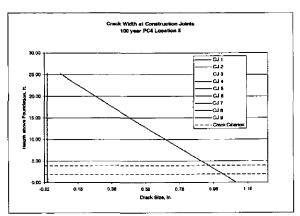


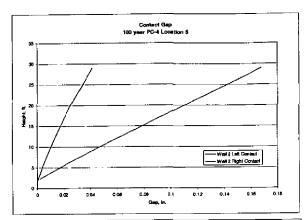


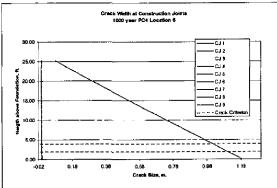


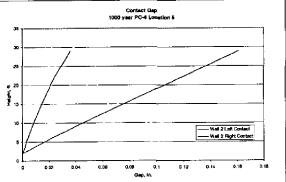


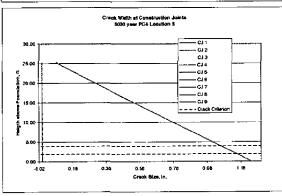
High Soil

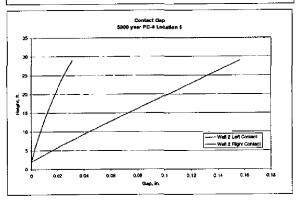




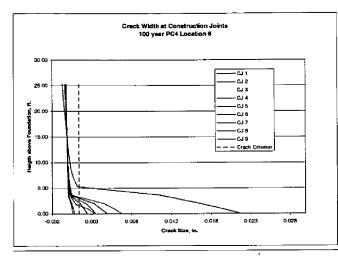


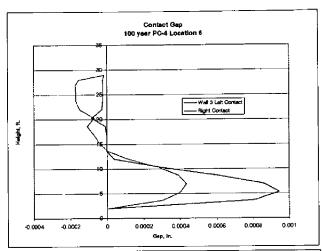


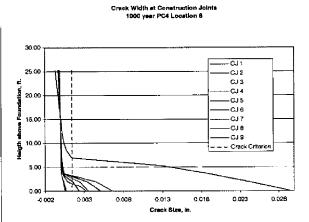


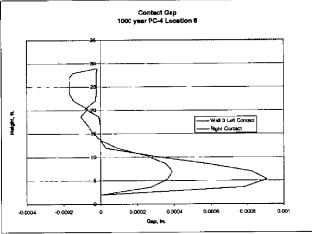


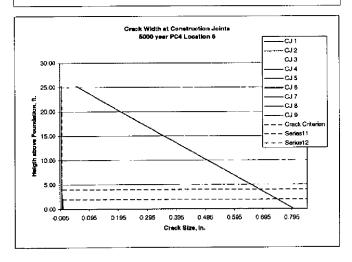
### Low Soil

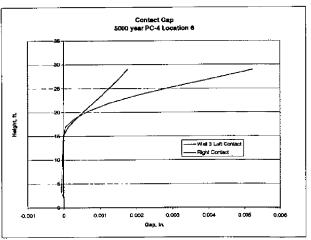


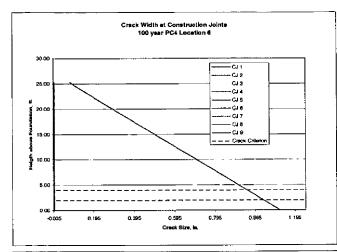


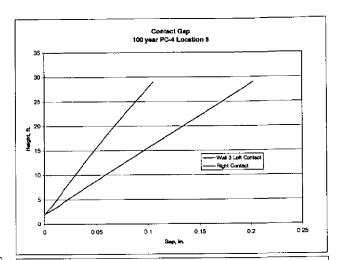


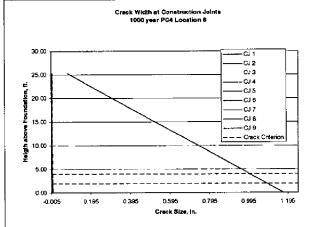


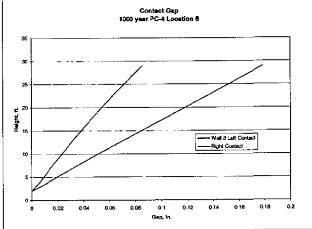


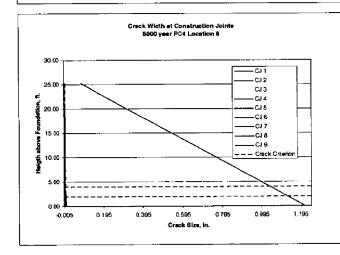


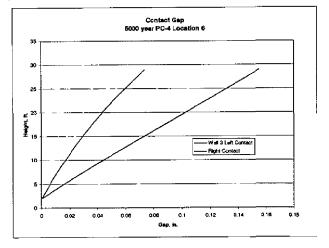


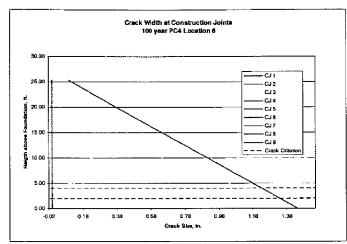


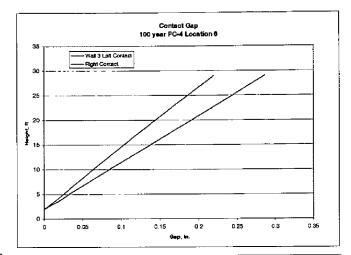


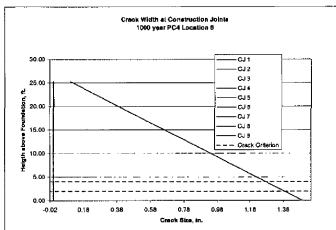


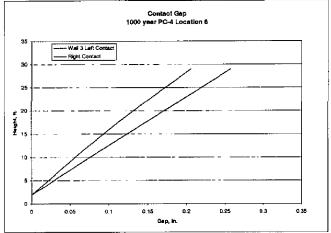


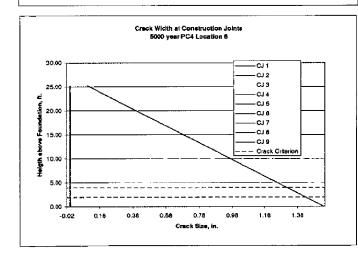


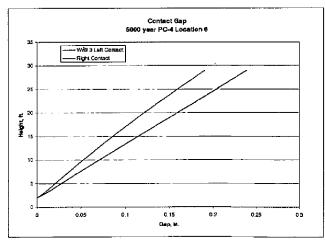




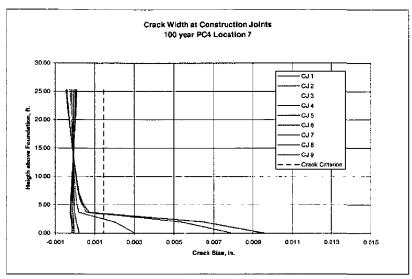


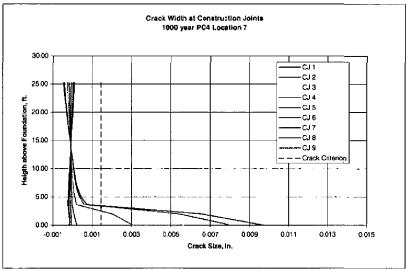


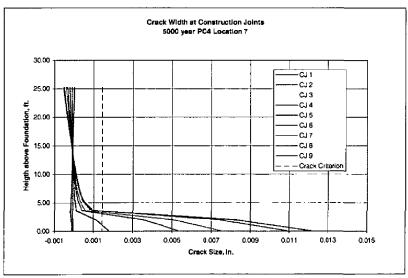




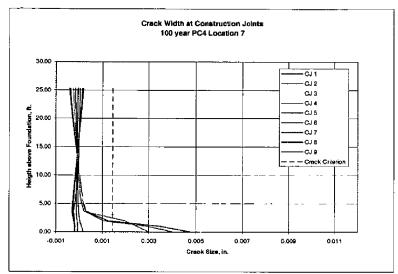
## Low Soil

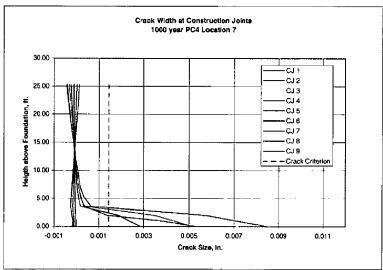


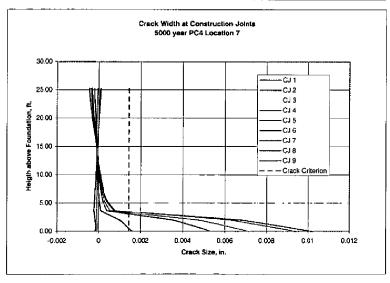




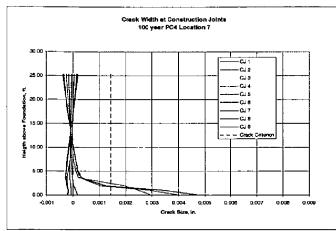
### T-CL C- 書 - 00006, 配む.の PC-4 Differential Settlement - Location 7 Mean Soil

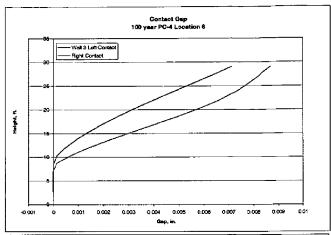


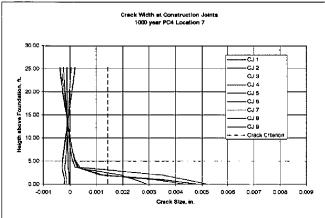


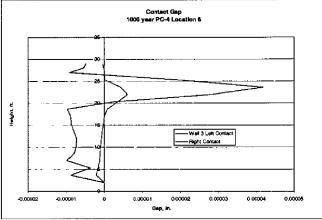


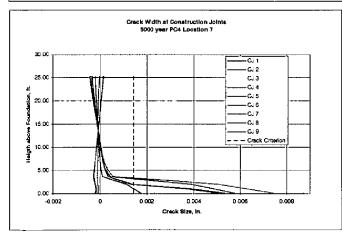
PC-4 Differential Settlement - Location 7 High Soil

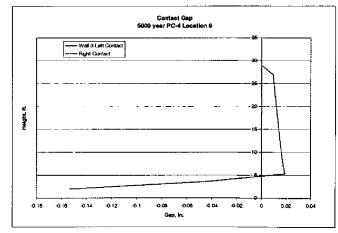


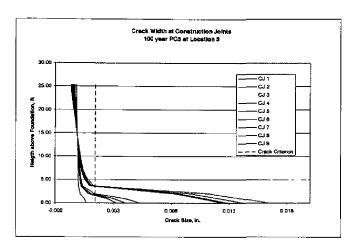


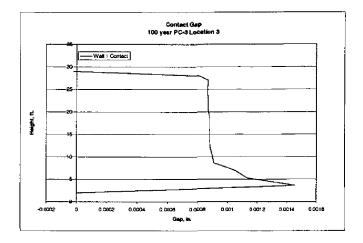


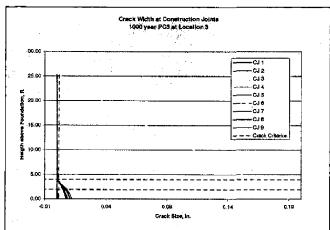


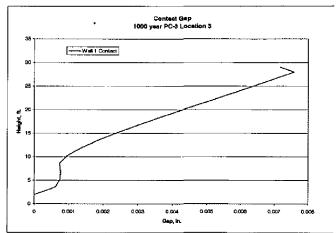


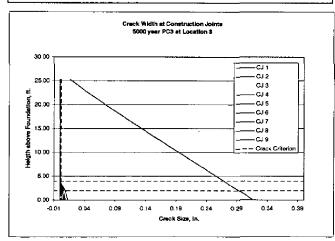


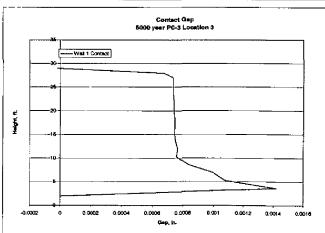


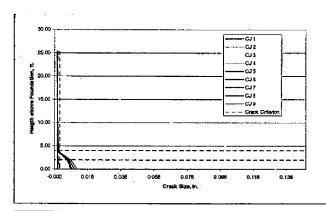


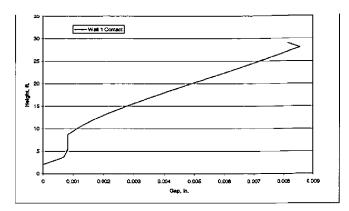


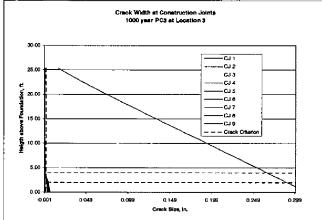


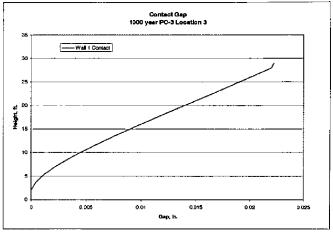


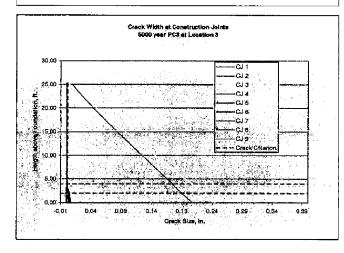


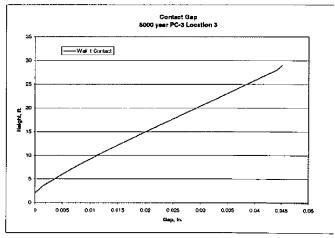


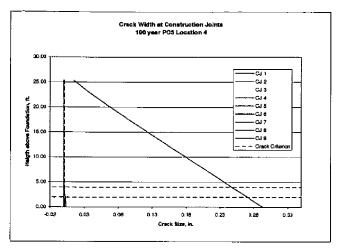


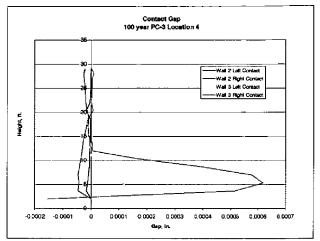


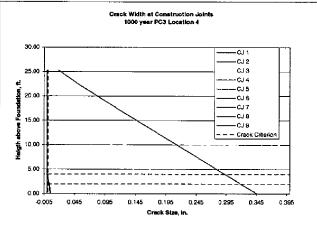


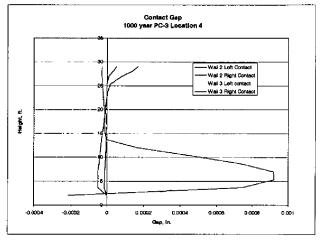


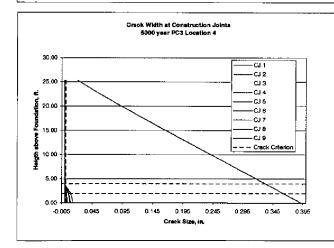


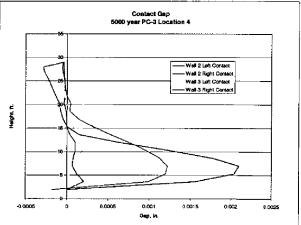


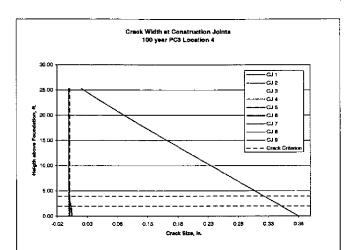


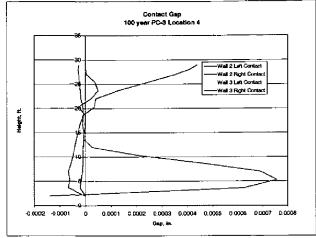


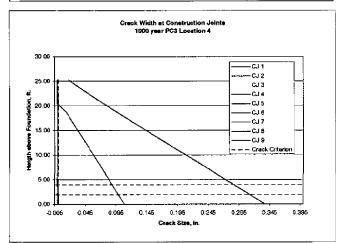


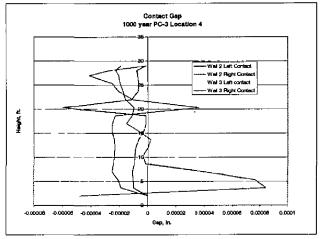


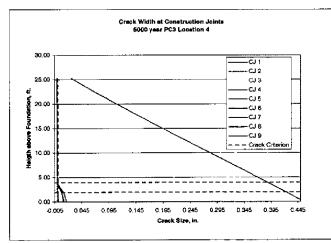


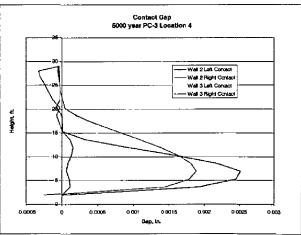


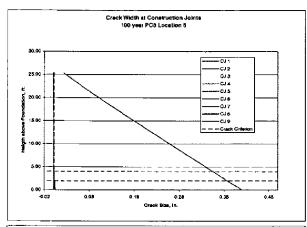


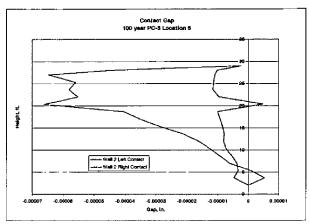


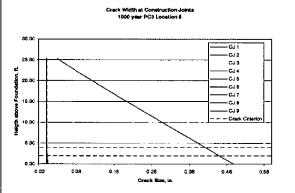


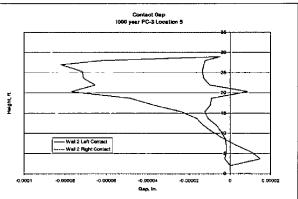


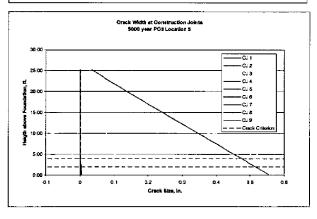


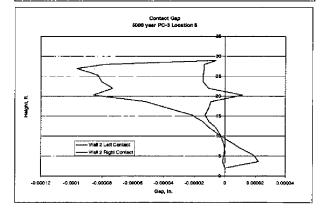


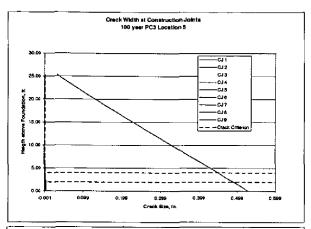


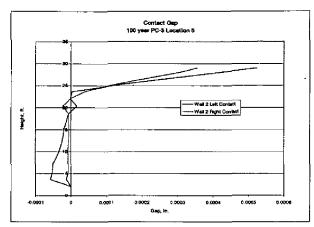


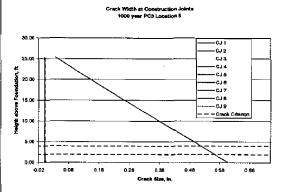


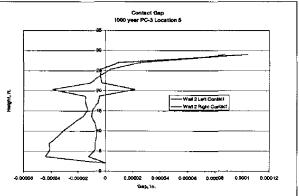


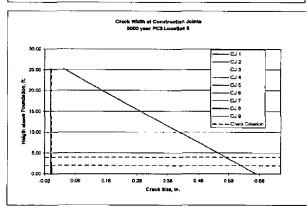


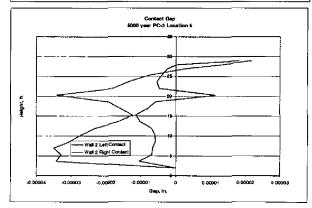




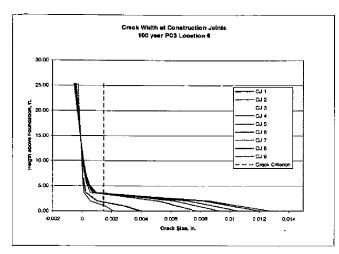


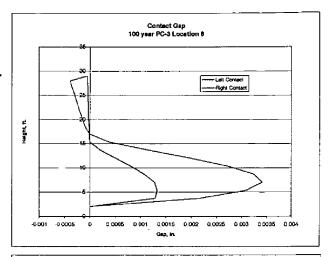


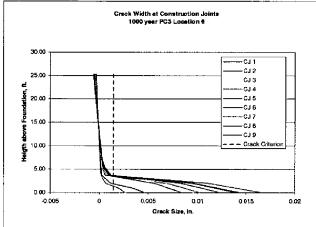


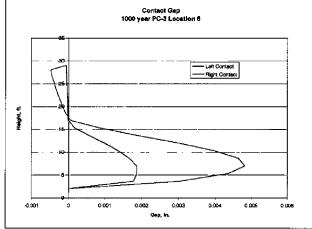


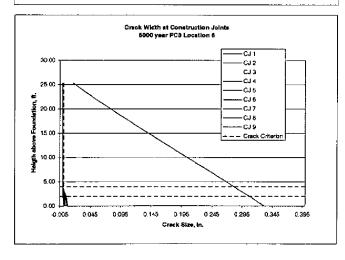
PC-3 Differential Settlement - Location 6 R = 62 ft.

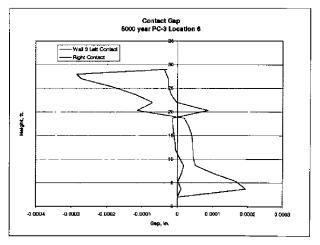


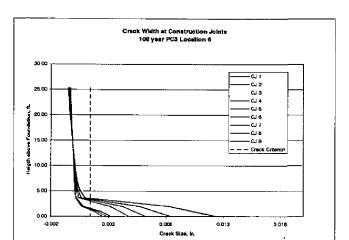


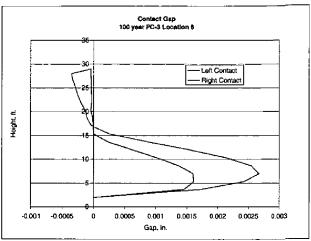


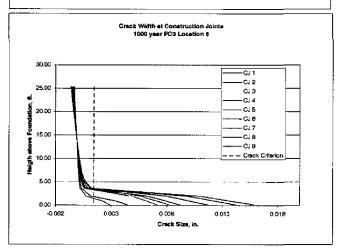


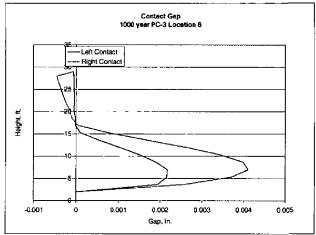


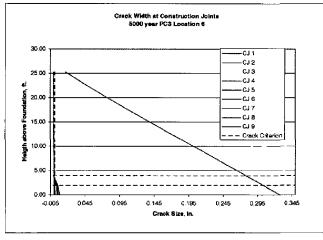


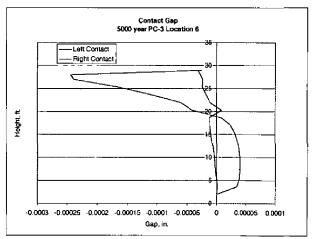






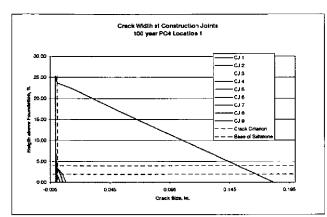


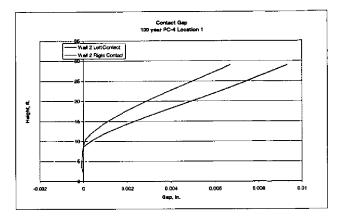


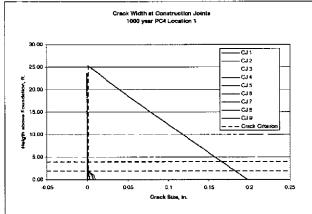


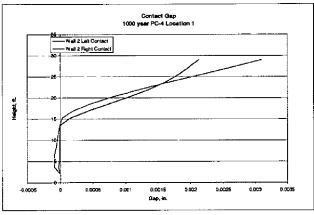
## T-CLC- 2-00006, New .G PC-4 Differential Settlement - Location 1

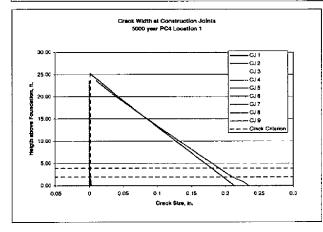
R = 62 ft.

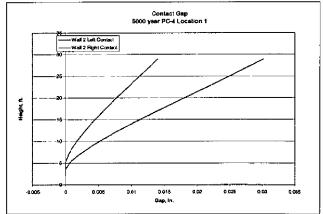


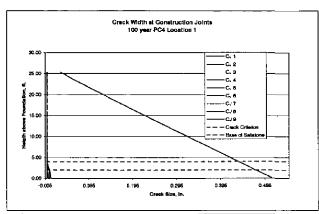


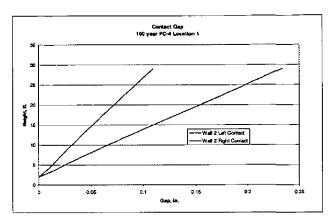


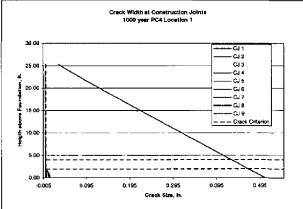


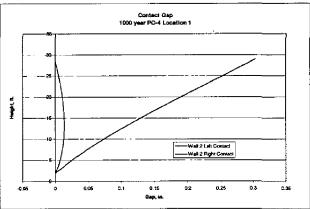


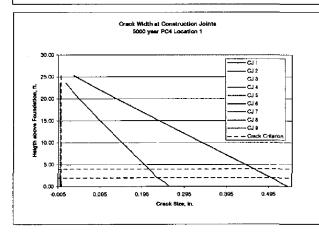


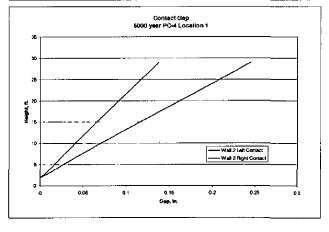


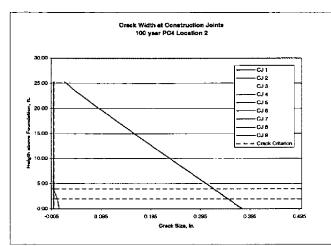


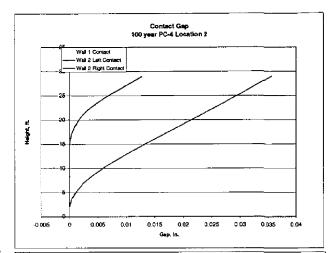


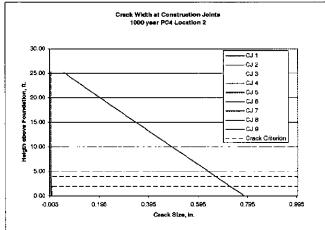


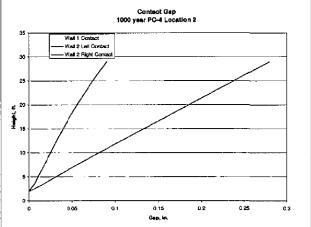


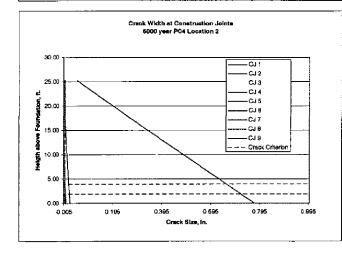


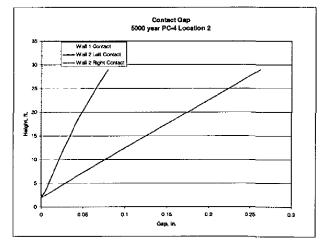


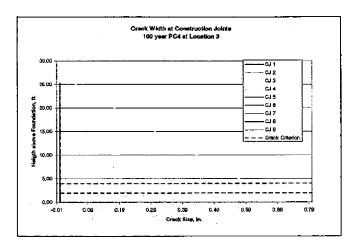


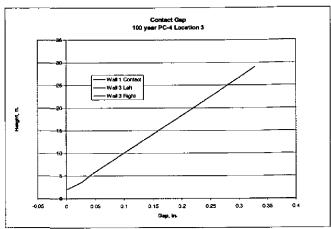


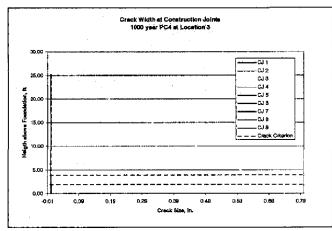


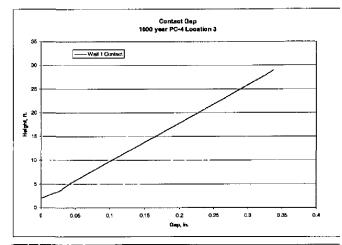


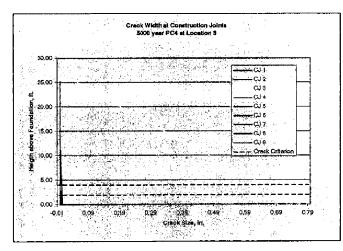


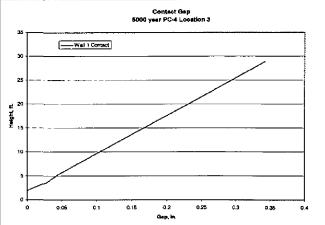


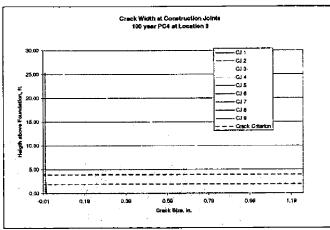


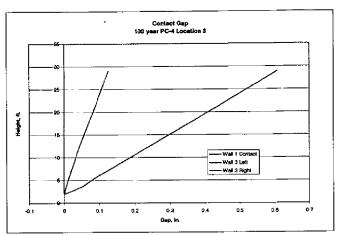


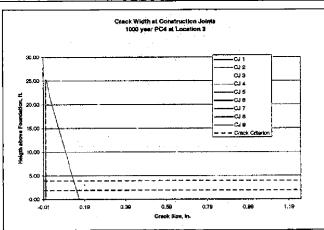


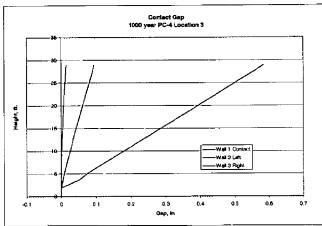


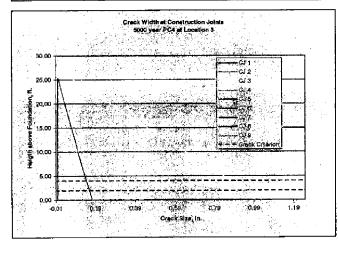


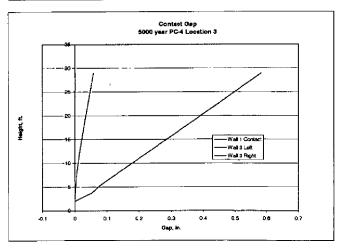




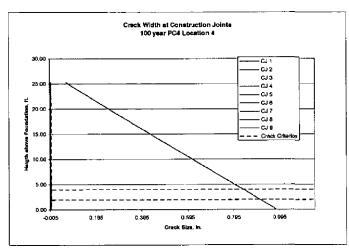


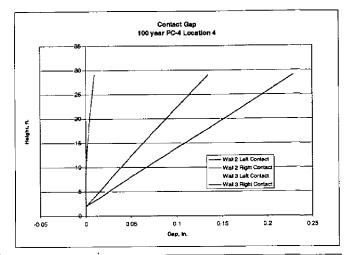


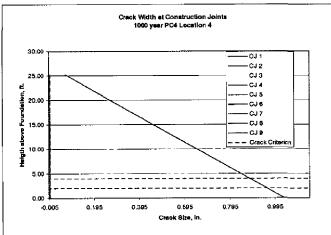


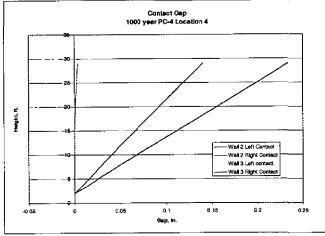


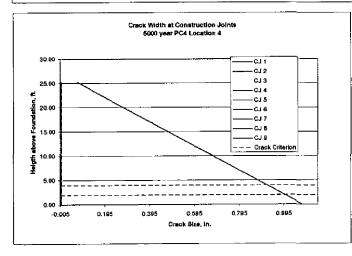
## t-CLC-2 -00006, New DPC-4 Differential Settlement - Location 4 R = 62 ft.

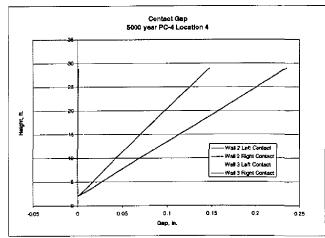




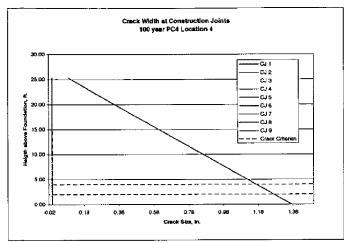


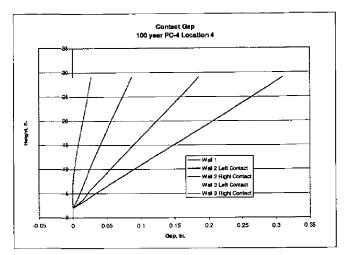


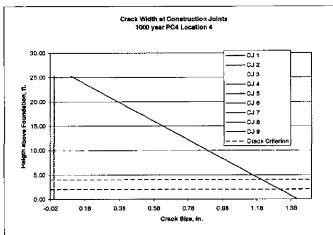


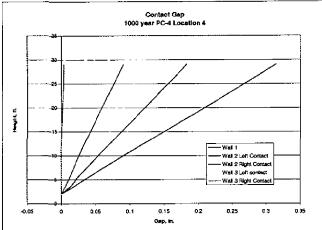


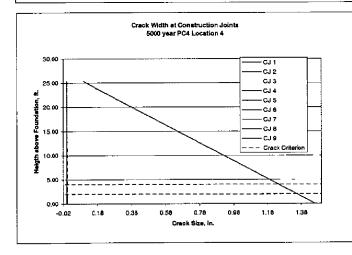
#### PC-4 Differential Settlement - Location 4 R = 124 ft.

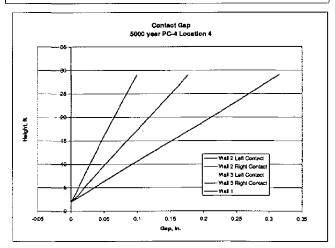




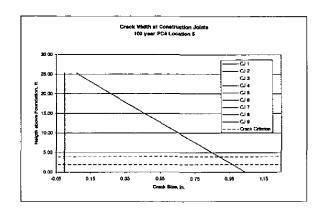


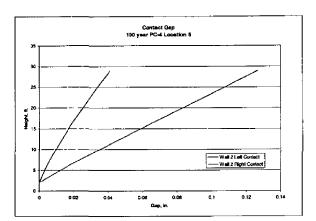


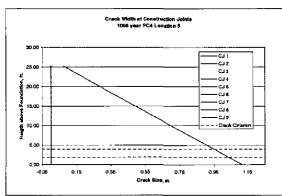


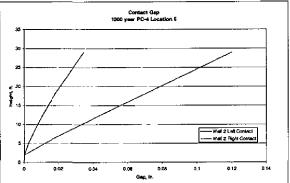


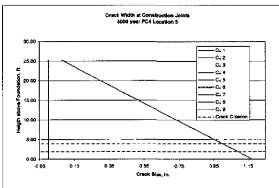
### PC-4 Differential Settlement - Location 5 R=62 ft.

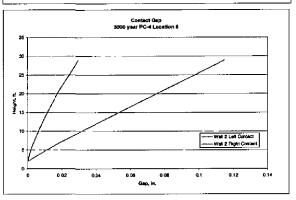




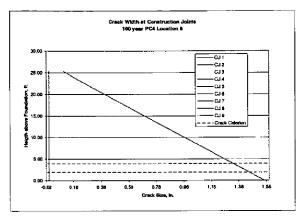


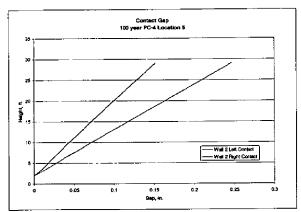


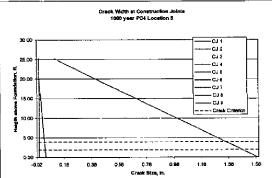


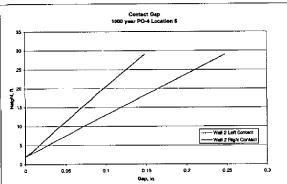


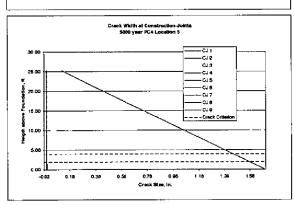
#### PC-4 Differential Settlement - Location 5 R = 124 ft.

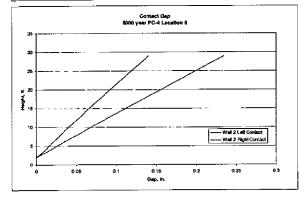




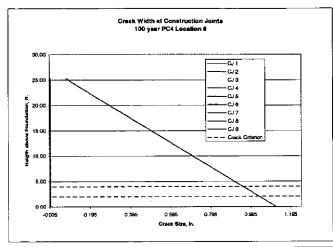


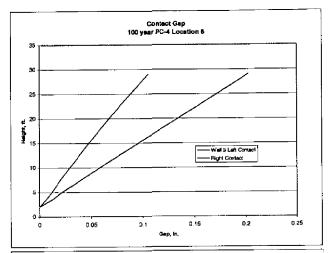


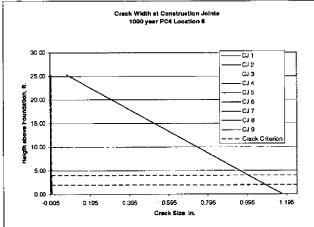


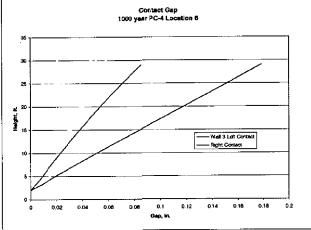


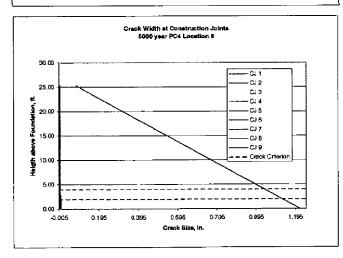
# T-LLC-3-0006, Dur.O PC-4 Differential Settlement - Location 6 R = 62 ft.

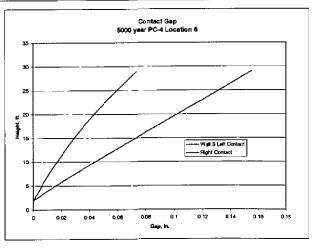




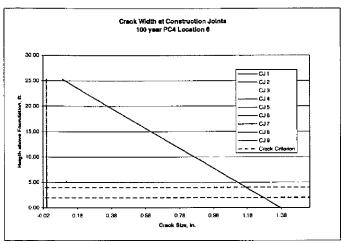


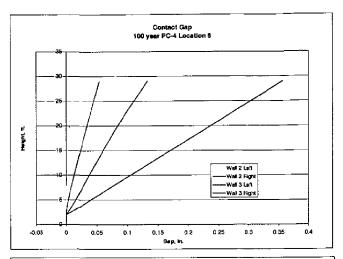


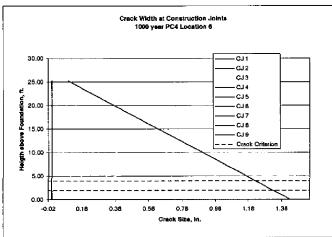


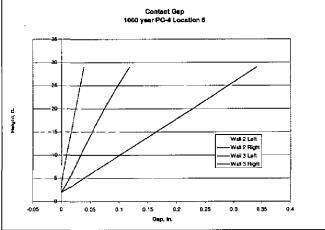


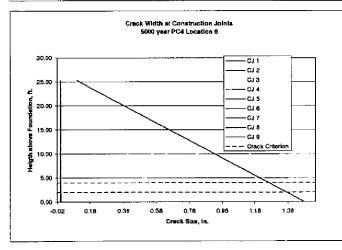
PC-4 Differential Settlement - Location 6 R = 124 ft.

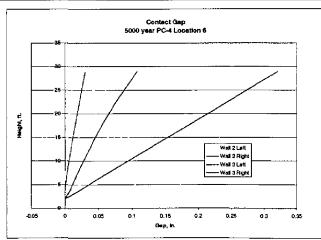




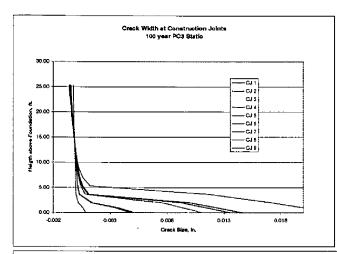


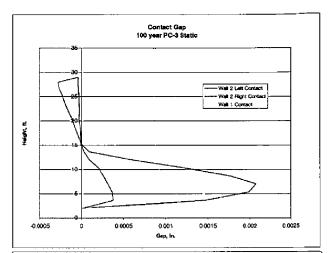


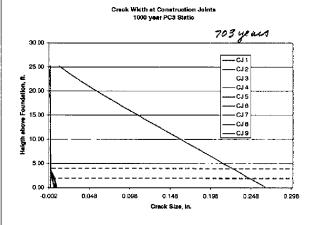


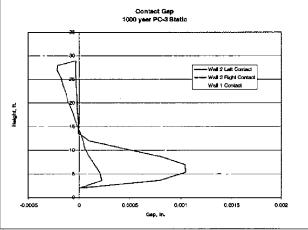


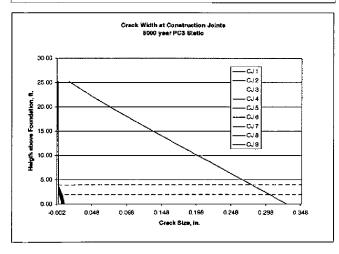
Static Settlement -Low Grout Modulus

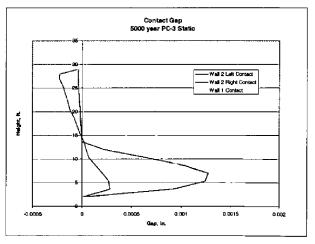




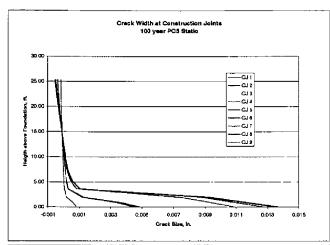


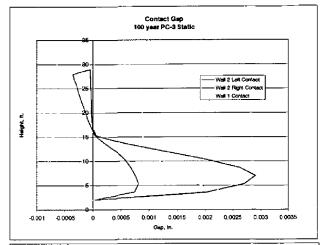


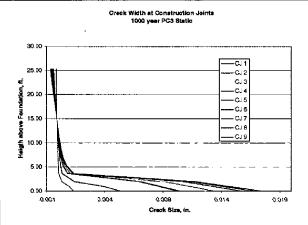


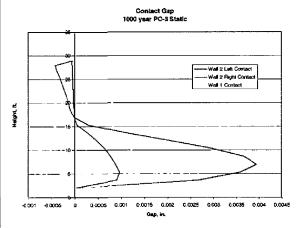


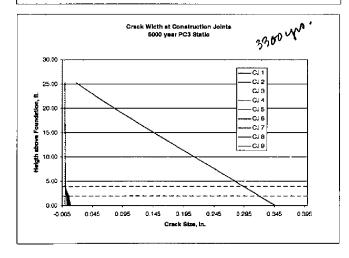
Static Settlement -Mean Grout Modulus

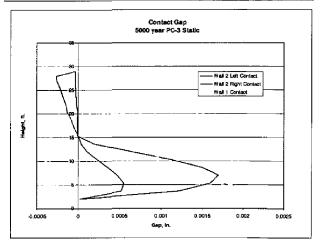




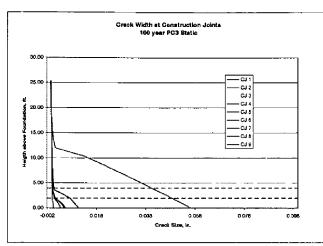


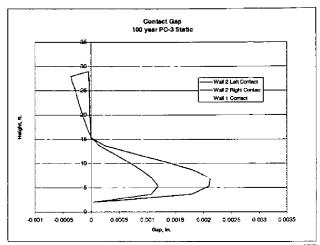


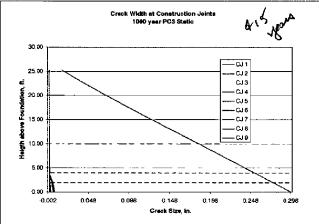


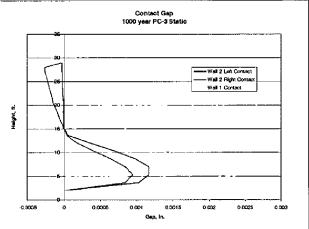


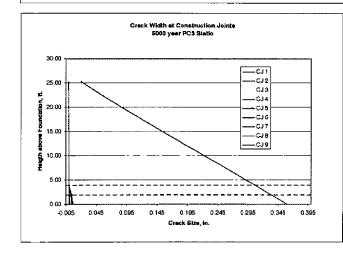
Static Settlement -High Grout Modulus

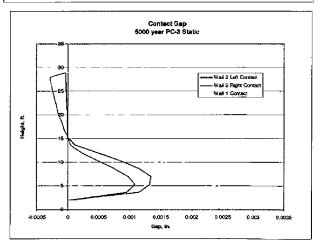




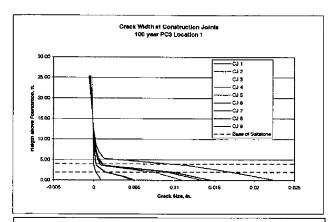


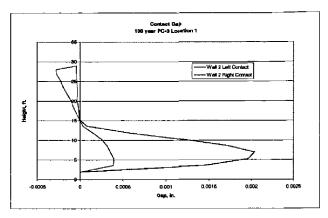


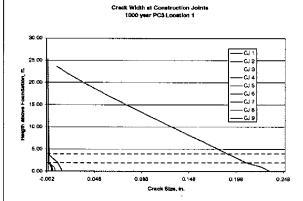


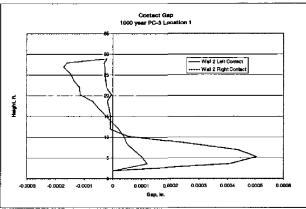


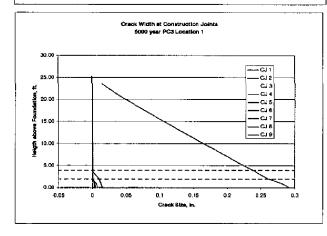
Location 1

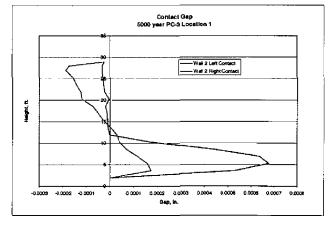




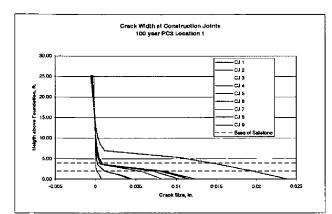


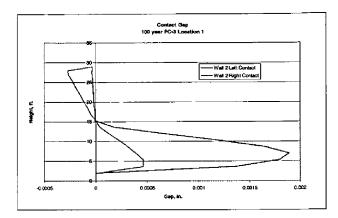


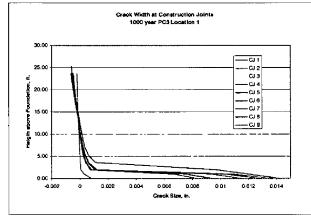


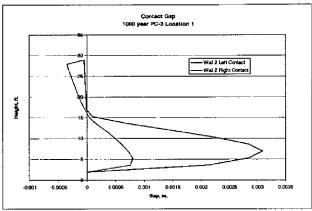


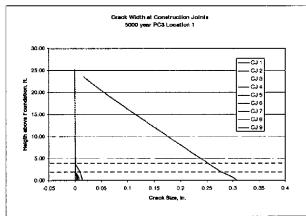
## Location 1

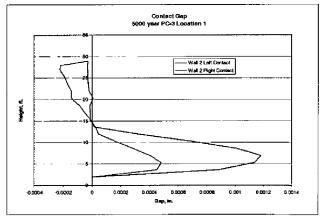






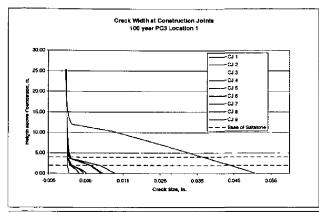


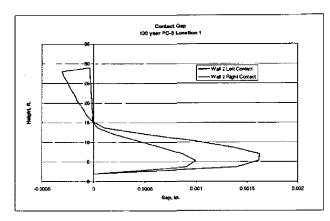


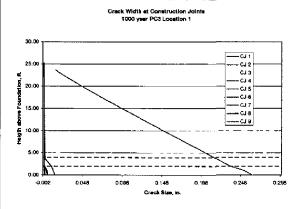


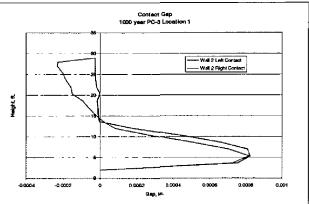
#### PC-3 Differential Settlement - High Grout Modulus

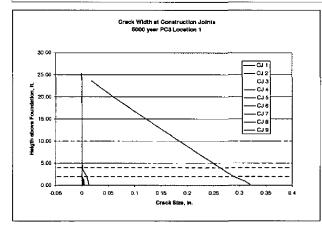
#### Location 1

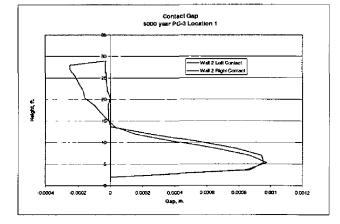




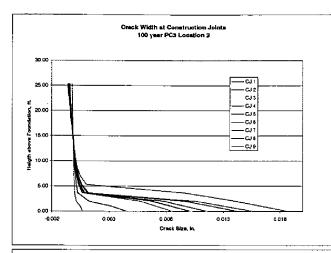


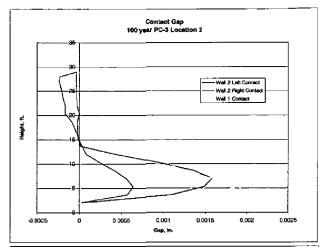


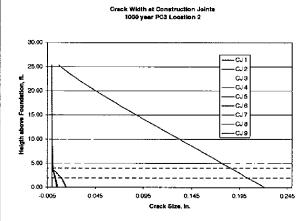


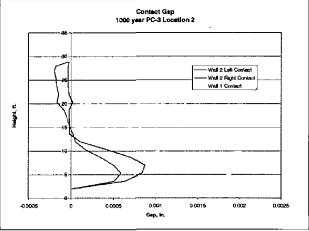


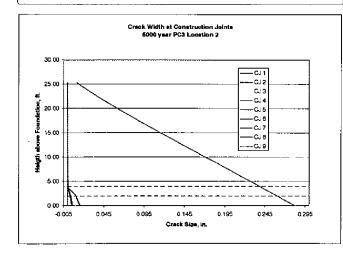
## Low Grout Modulus

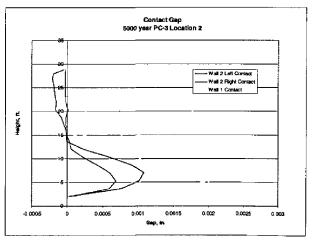




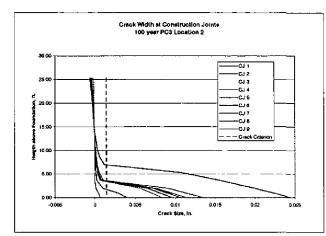


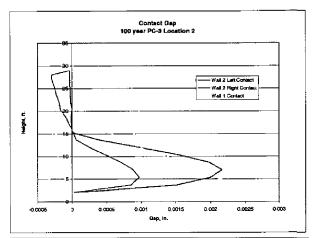


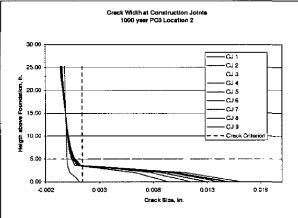


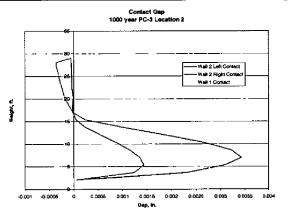


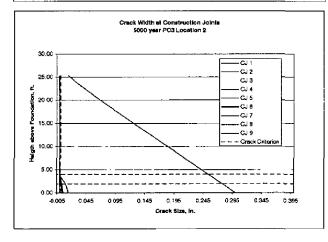
## Mean Grout Modulus

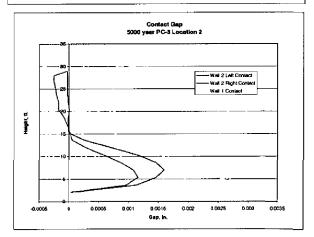


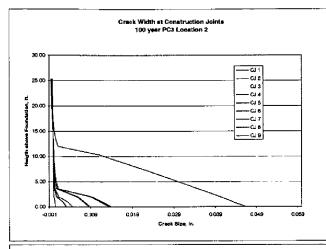


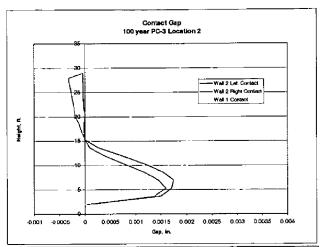


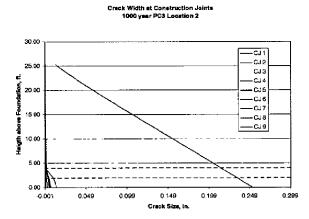


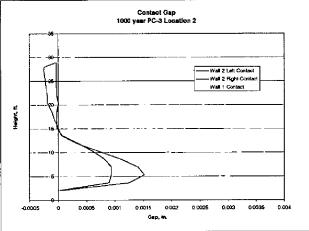


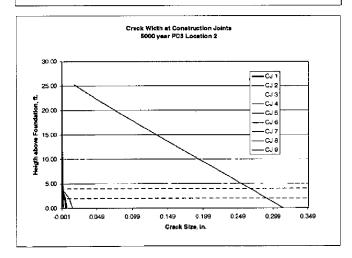


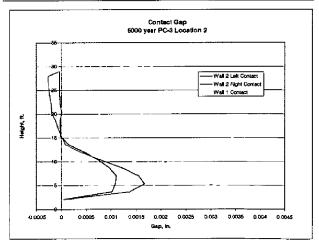


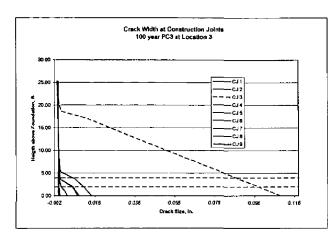


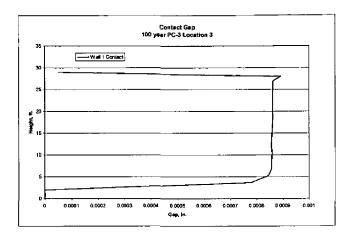


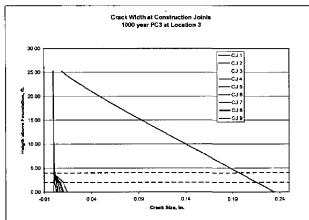


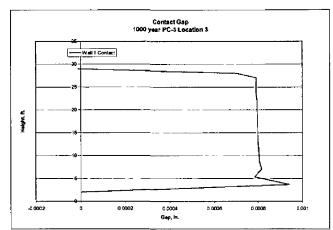


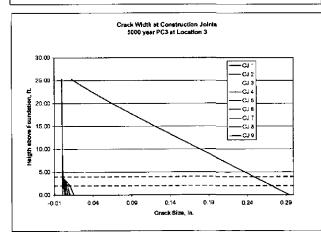


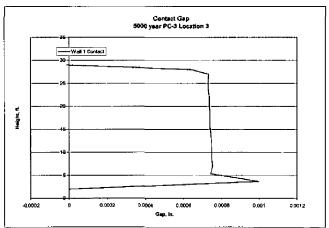




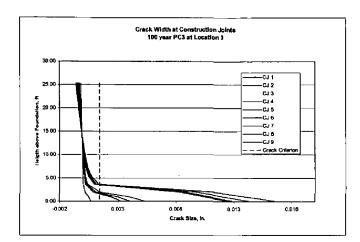


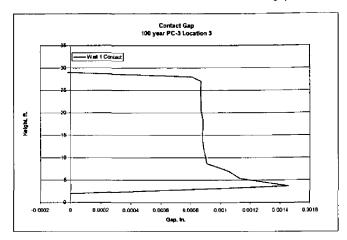


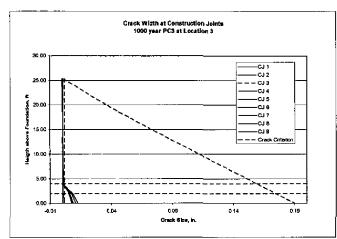


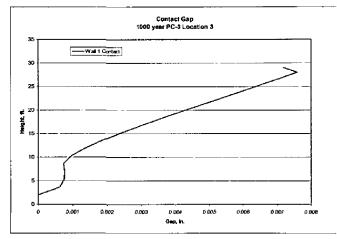


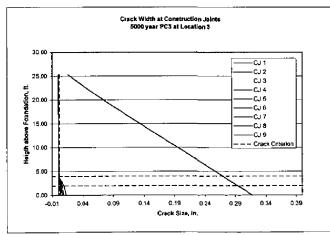
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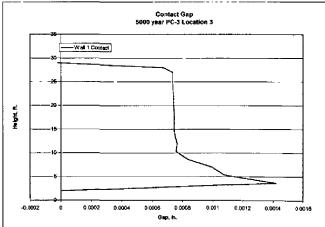




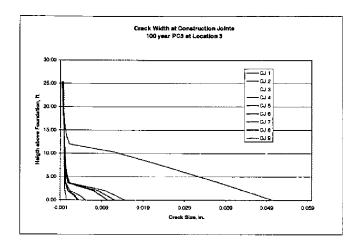


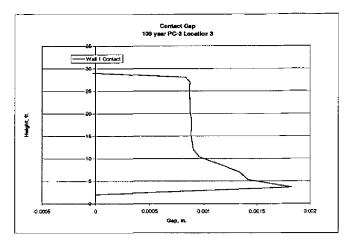


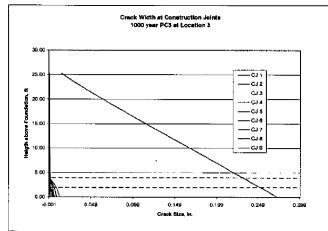


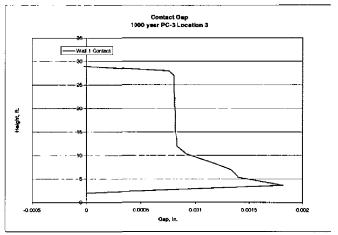


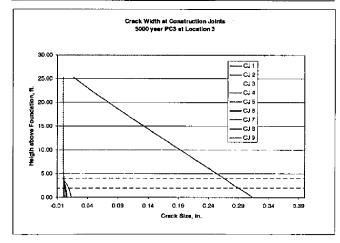
PC-3 Differential Settlement - Location 3 High Grout Modulus

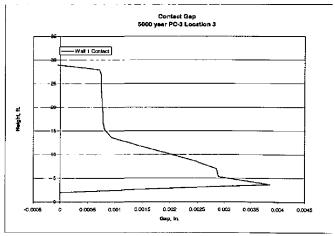


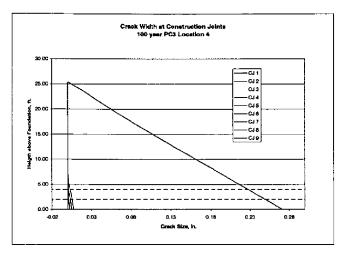


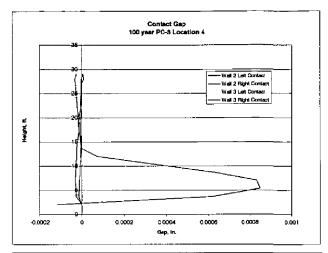


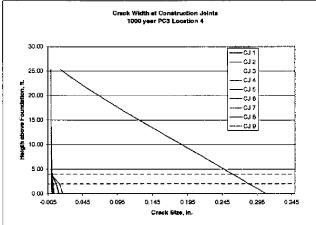


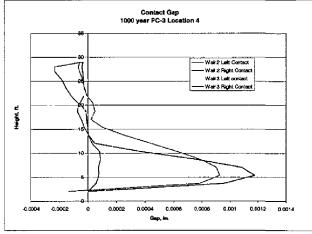


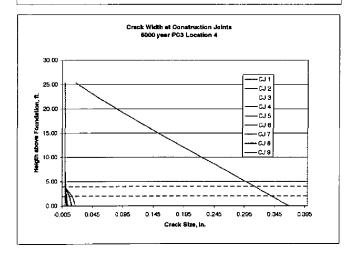


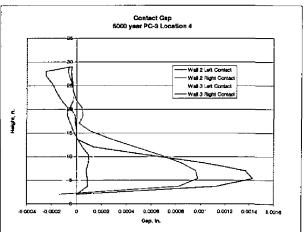


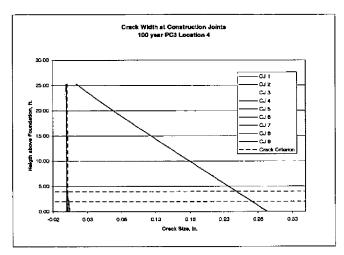


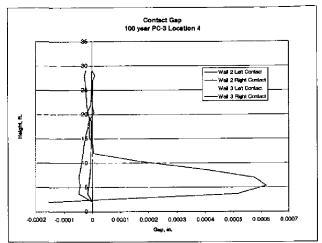


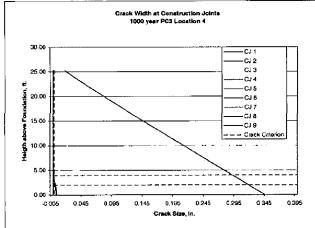


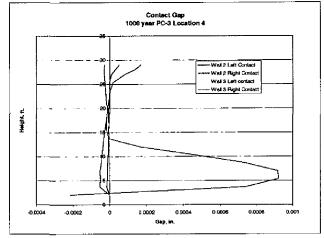


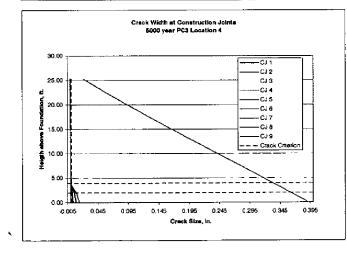


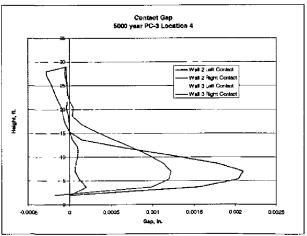




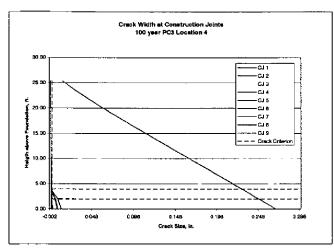


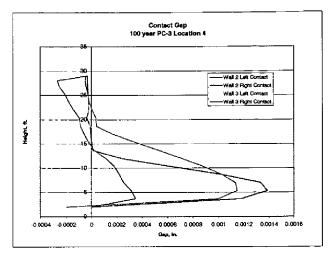


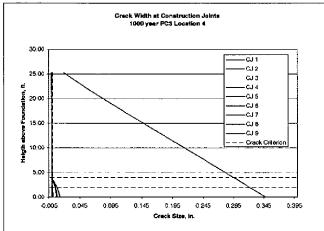


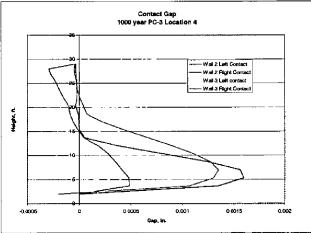


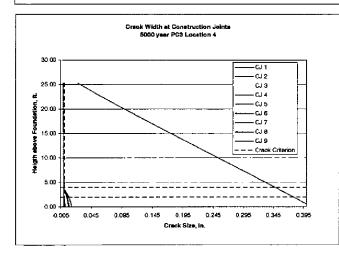
**High Grout Modulus** 

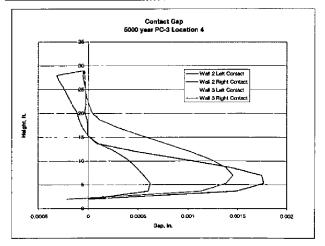


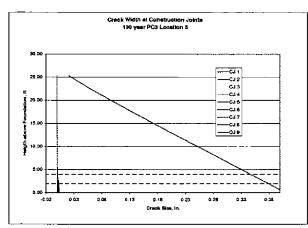


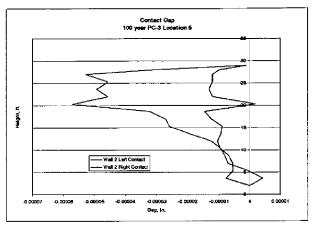


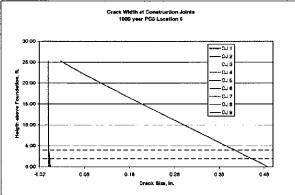


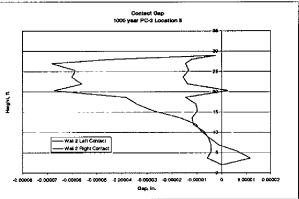


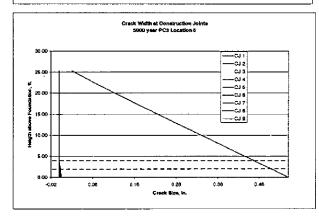


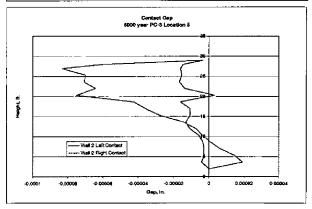




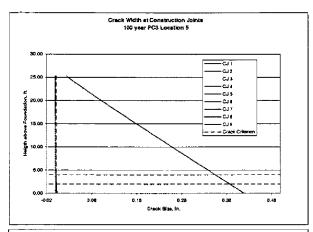


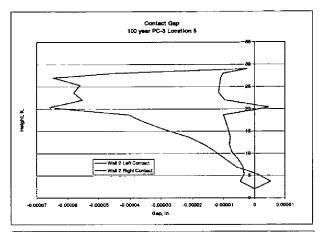


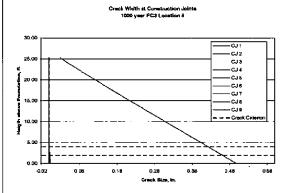


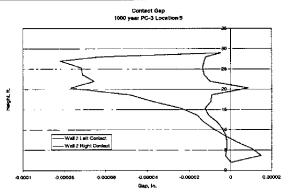


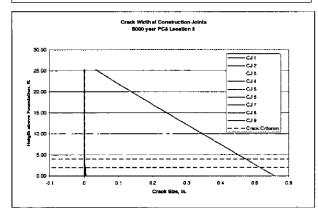
#### PC-3 Differential Settlement - Location 5 Mean Grout Modulus

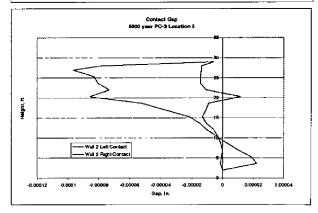




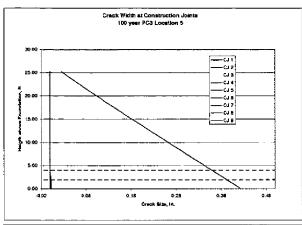


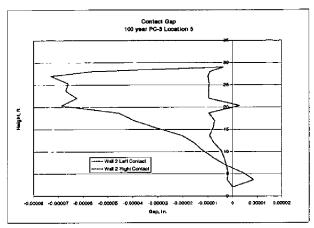


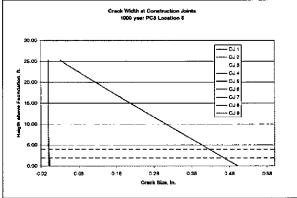


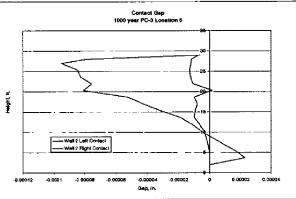


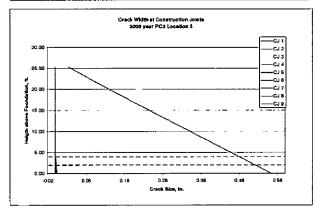
#### PC-3 Differential Settlement - Location 5 High Grout Modulus

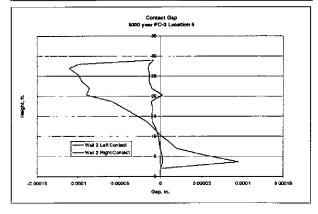




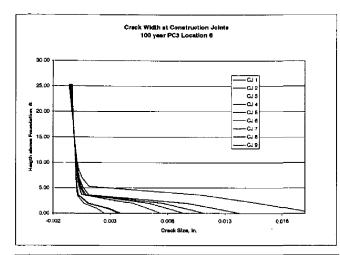


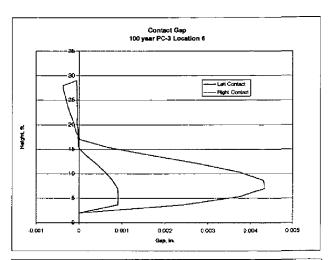


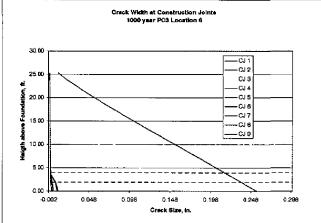


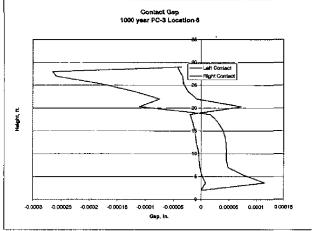


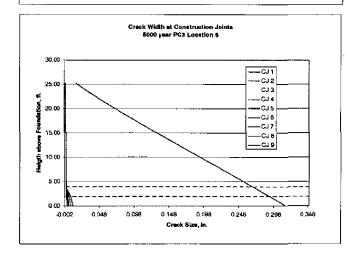
## T-CLC-2 -00006 (Res. o PC-3 Differential Settlement - Location 6 Low Grout Modulus

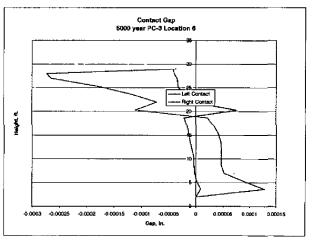




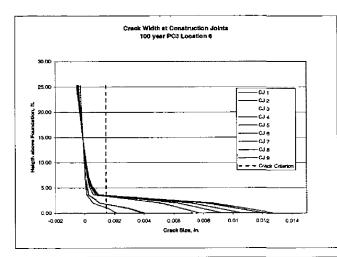


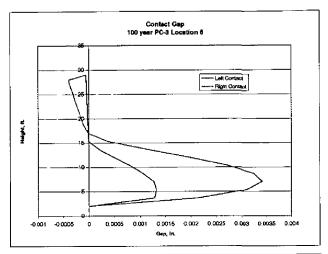


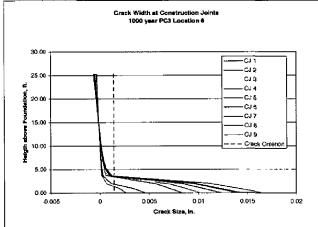


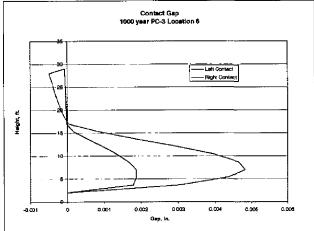


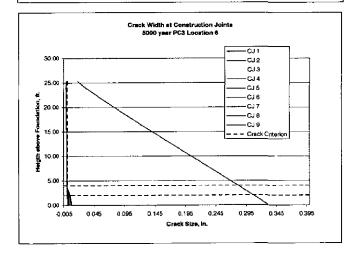
## Mean Grout Modulus

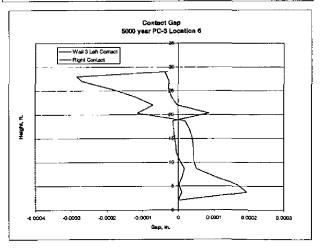




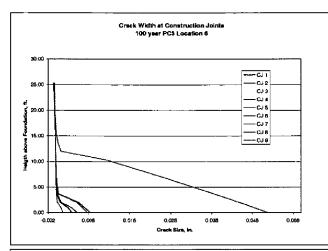


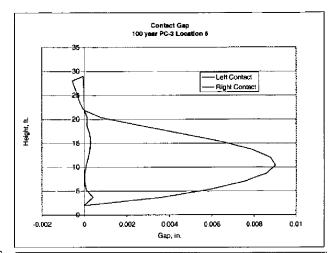


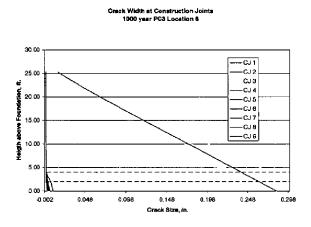


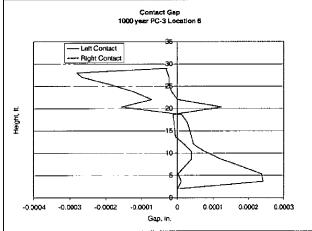


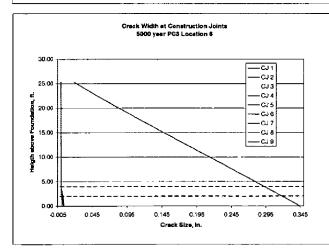
#### PC-3 Differential Settlement - Location 6 High Grout Modulus

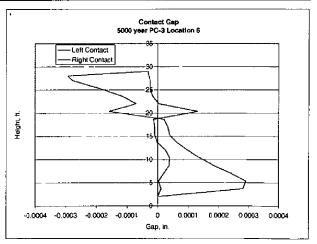


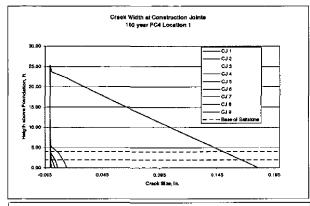


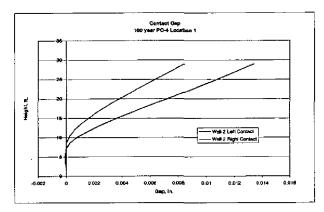


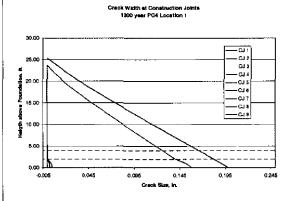


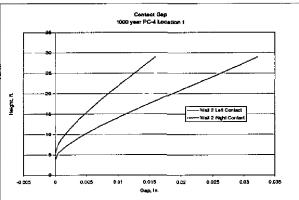


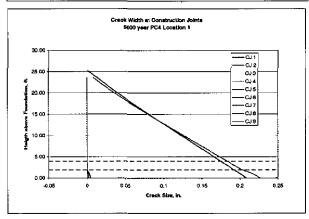


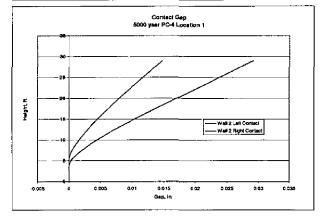




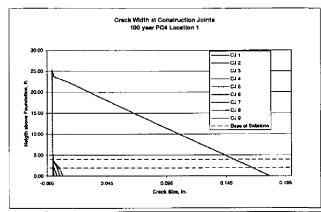


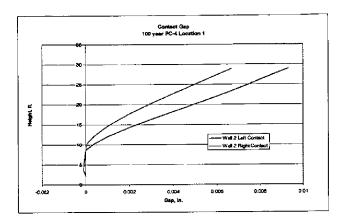


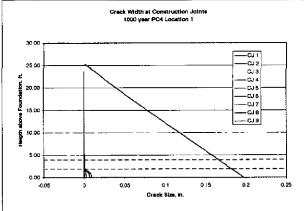


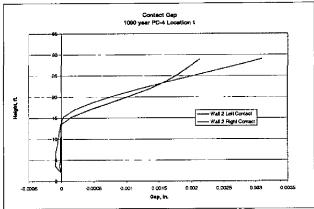


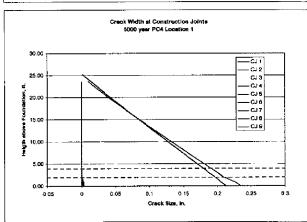
## Mean Grout Modulus

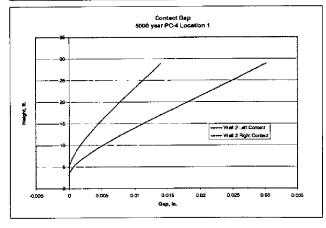




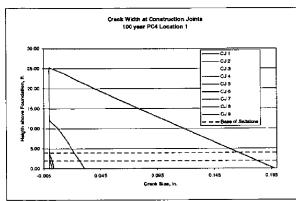


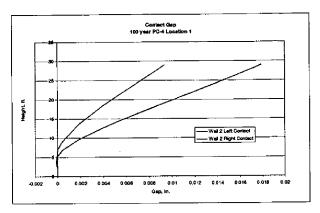


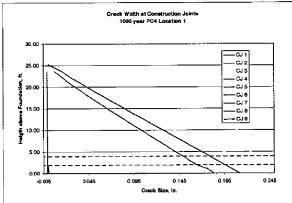


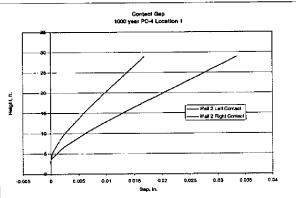


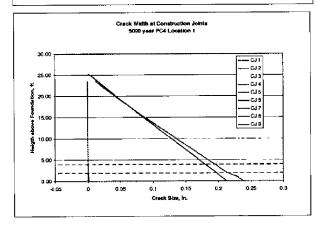
#### PC-4 Differential Settlement - Location 1 High Grout Modulus

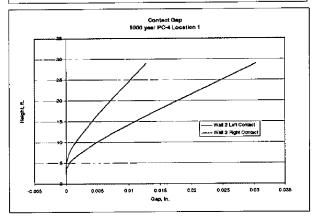




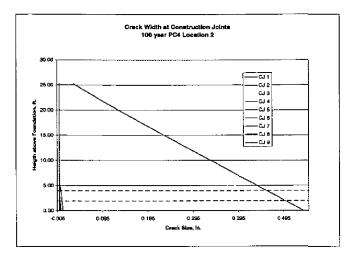


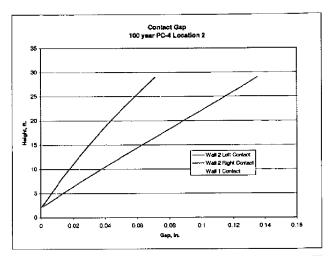


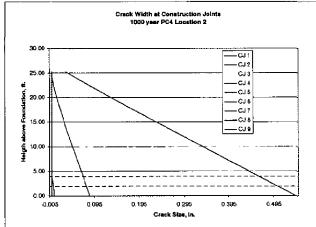


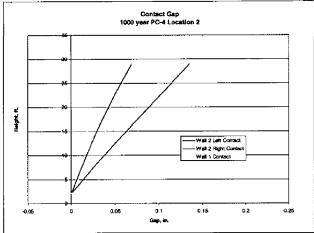


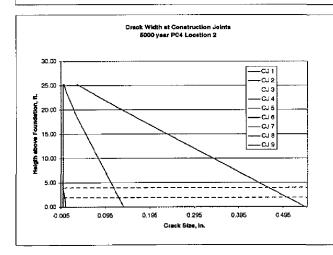
Low Grout Modulus

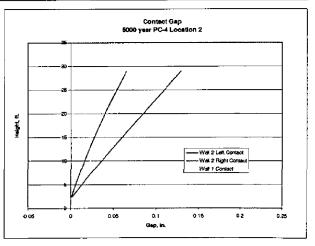




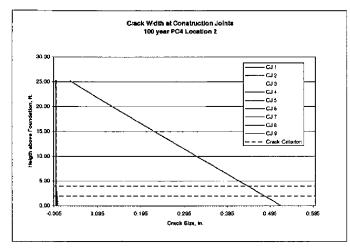


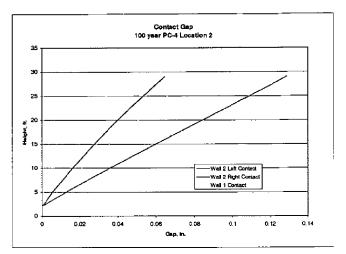


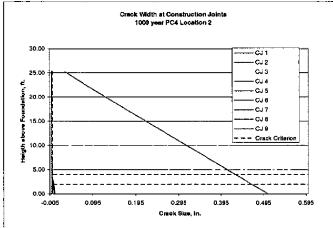


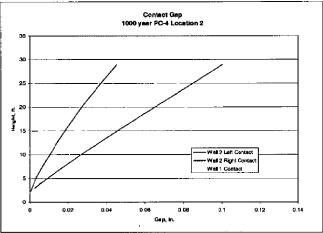


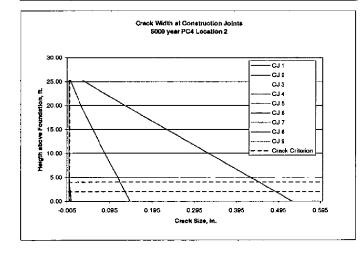
T-CLC-2-00006 1 lbs to
PC-4 Differential Settlement - Location 2

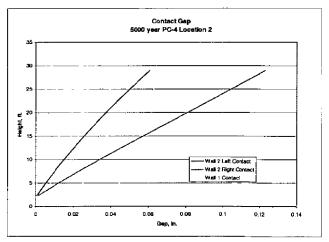




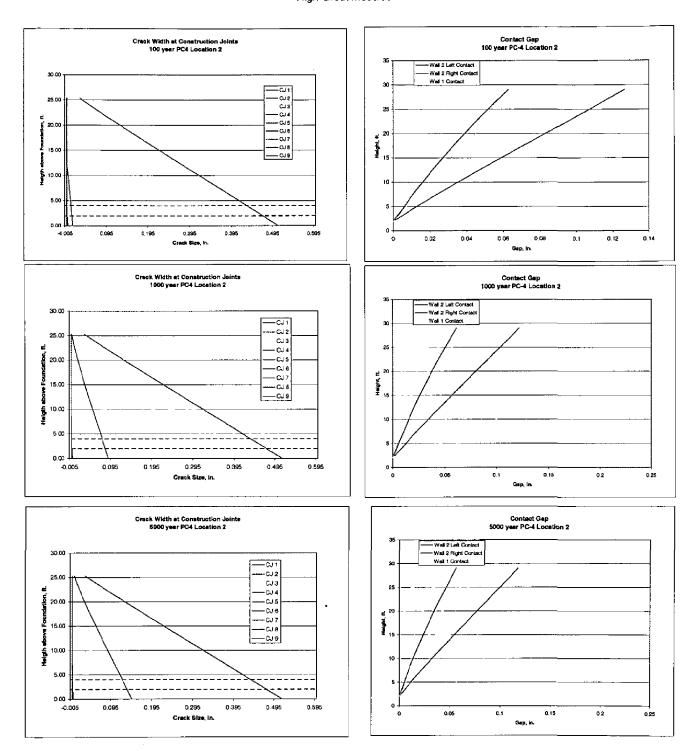


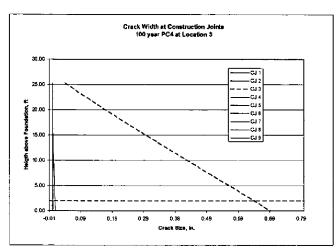


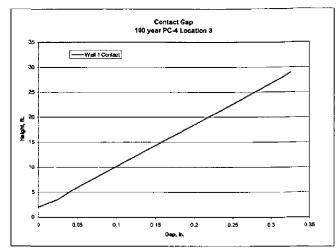


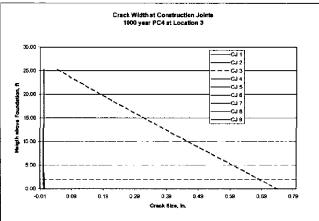


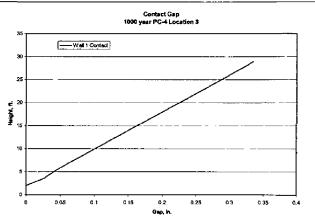
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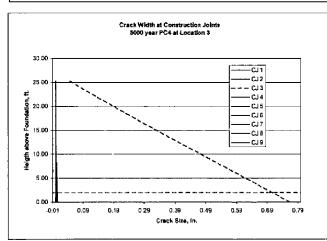


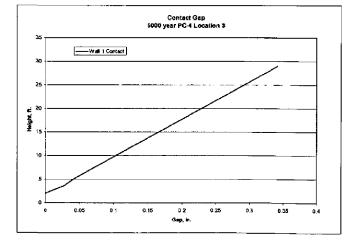


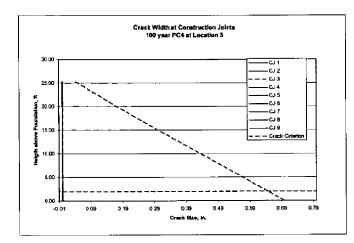


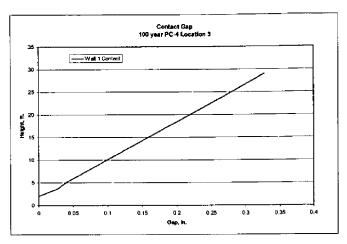


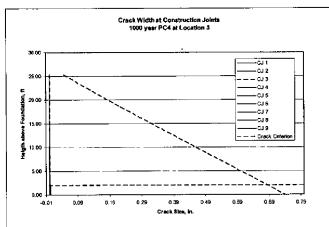


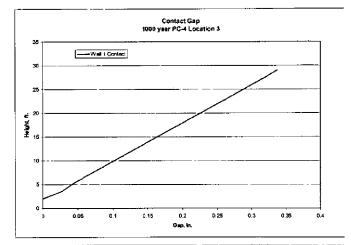


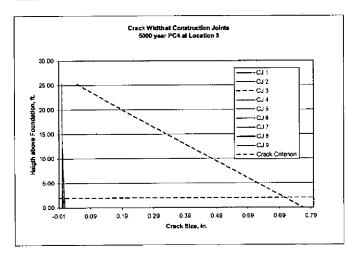


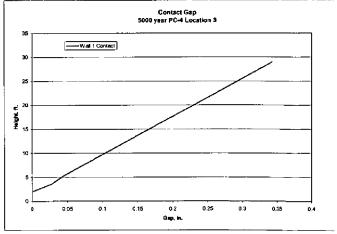


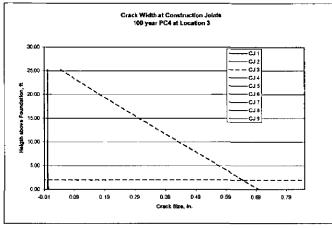


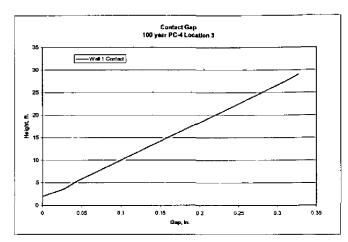


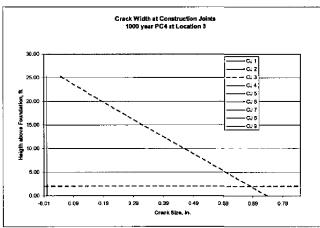


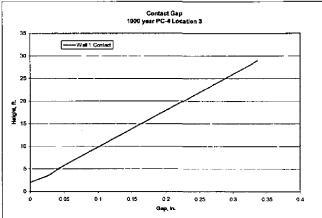


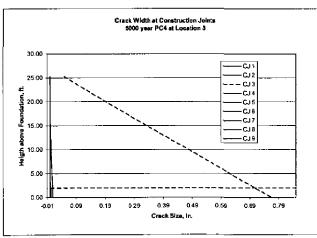


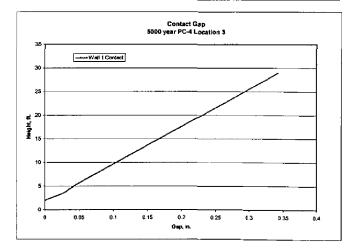


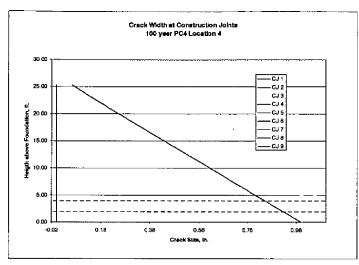


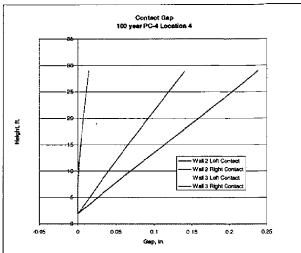


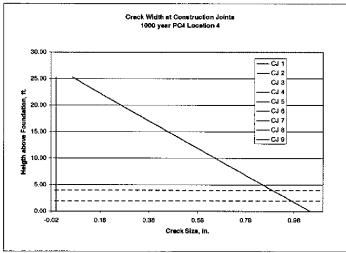


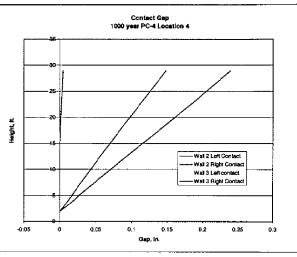


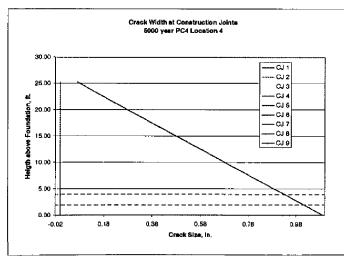


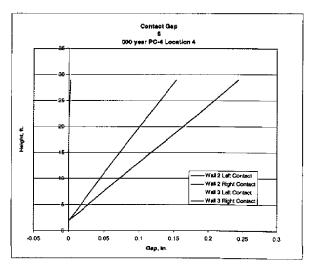




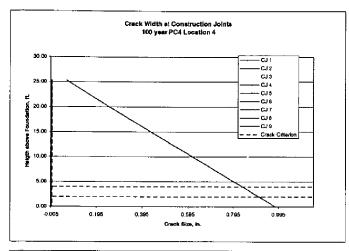


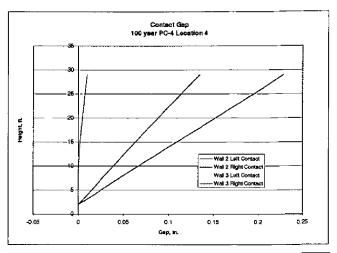


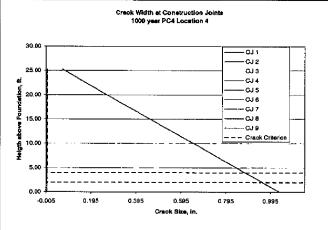


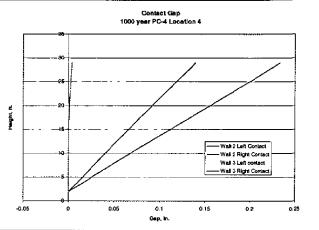


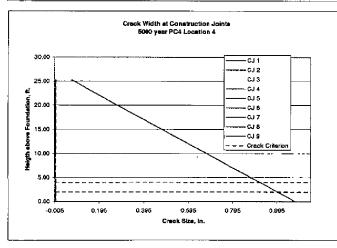
## Mean Grout Modulus

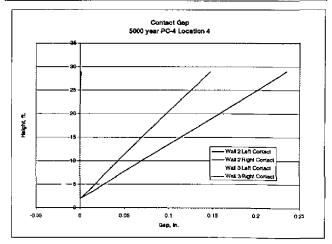




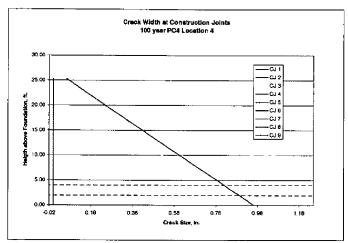


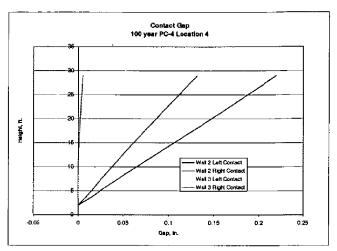


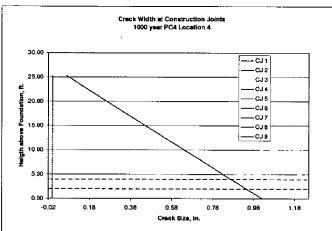


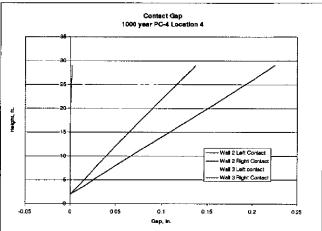


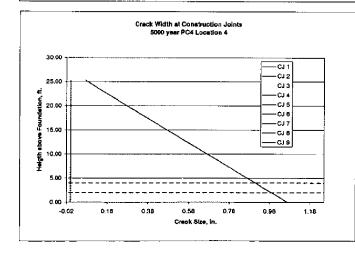
# サービレビー そ - 0 9 0 0 0 , 120 - 3 PC-4 Differential Settlement - Location 4 **High Grout Modulus**

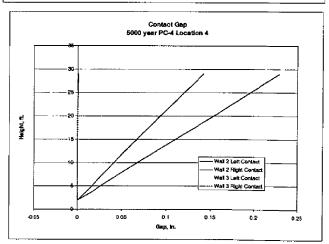


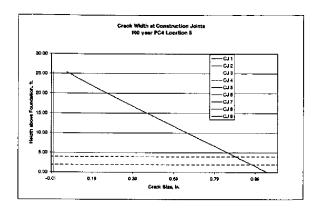


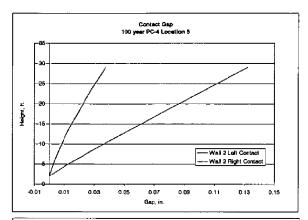


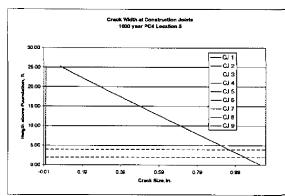


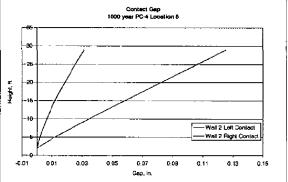


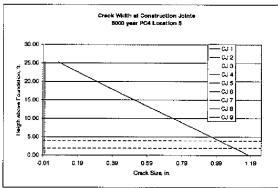


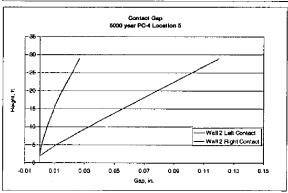


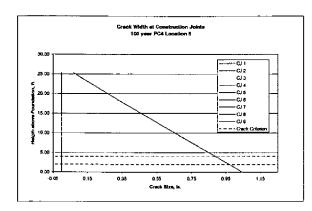


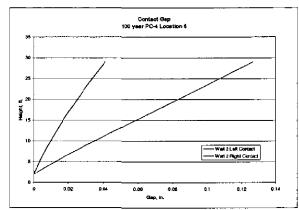


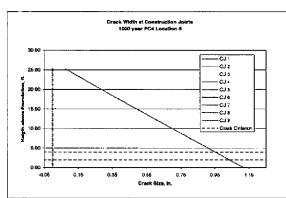


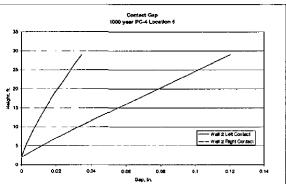


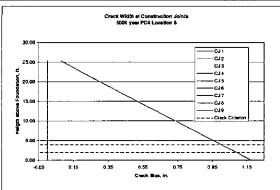


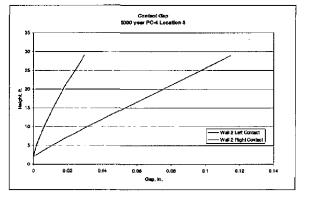


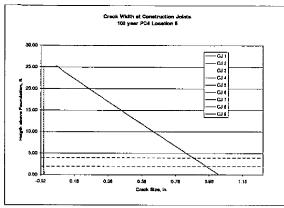


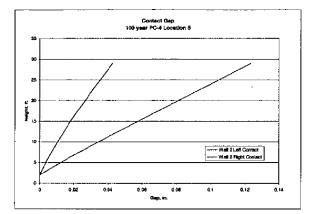


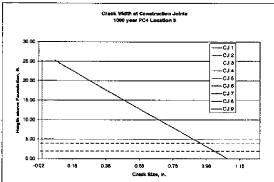


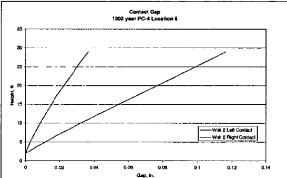


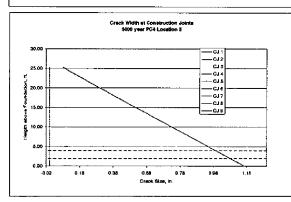


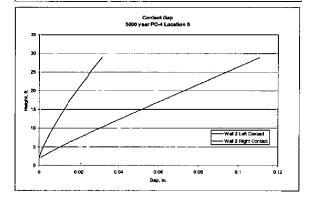


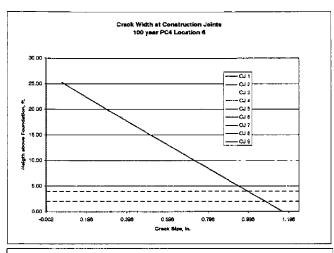


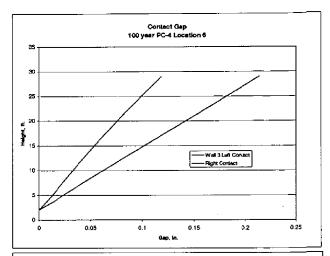


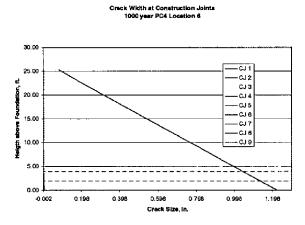


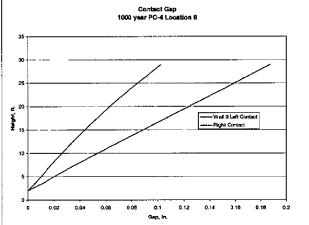


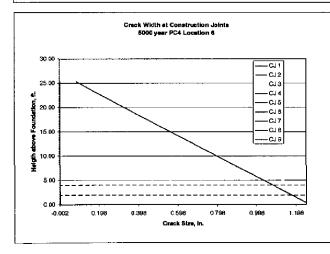


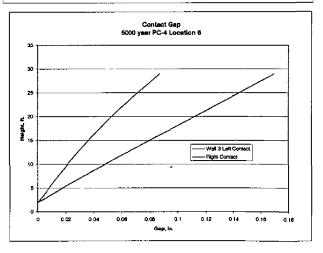




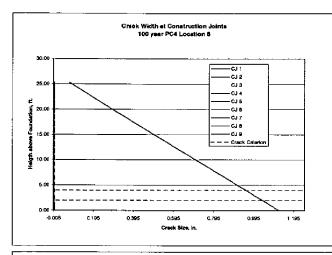


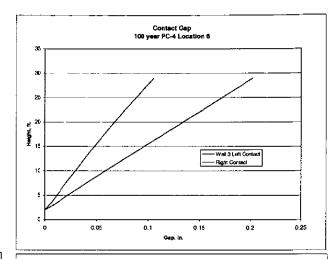


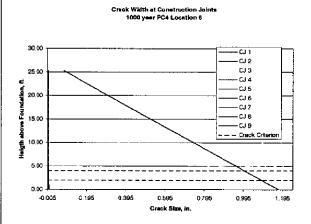


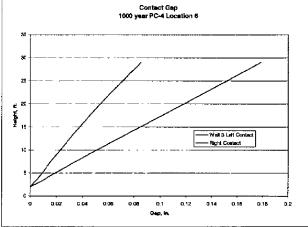


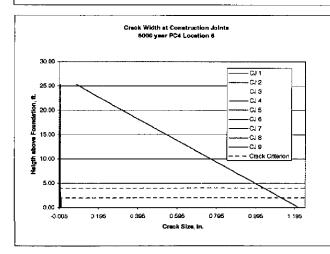
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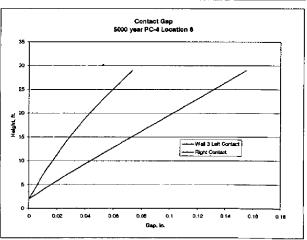




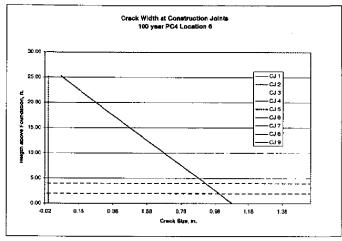


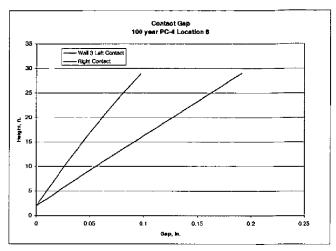


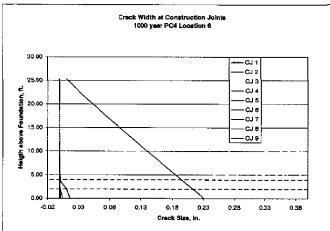


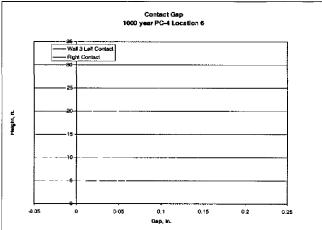


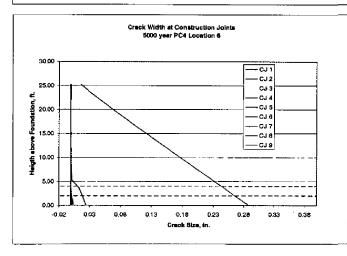
T-CLL-2-00066, Rw. 0
PC-4 Differential Settlement - Location 6 High Grout Modulus

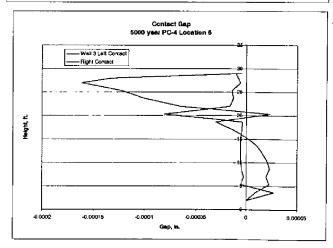




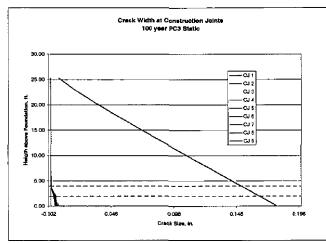


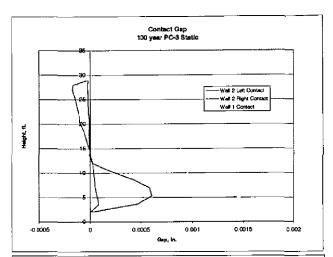


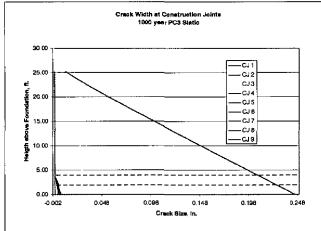


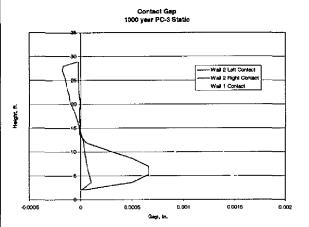


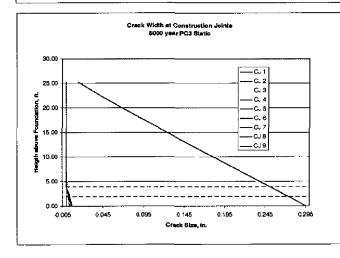
Static Settlement Low Grout Strength

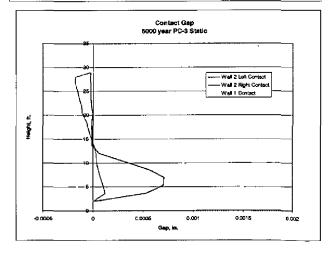


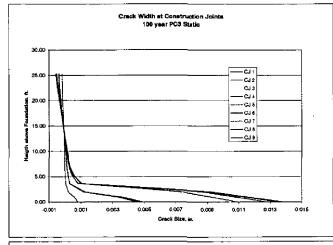


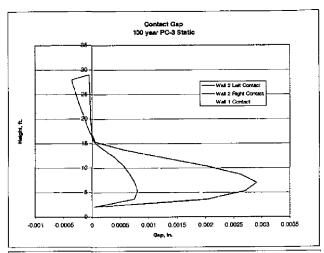


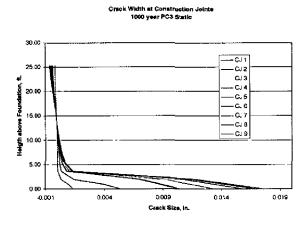


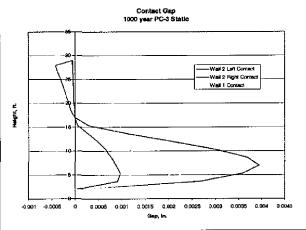


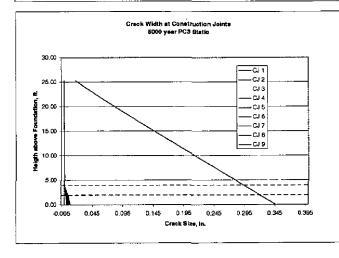


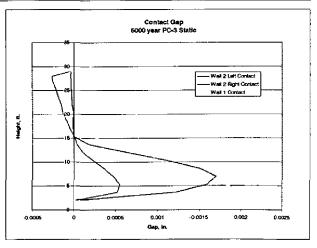


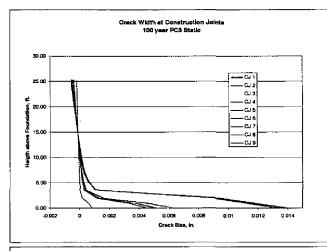


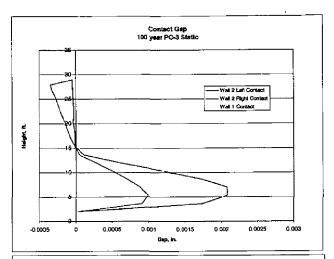


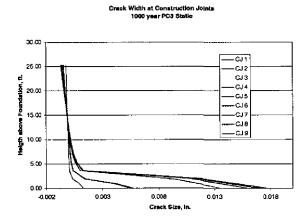


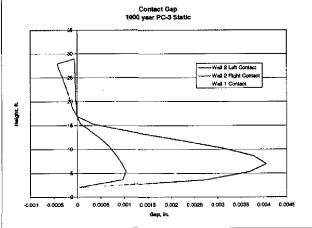


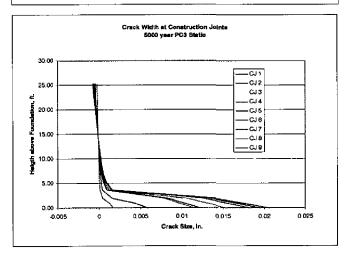


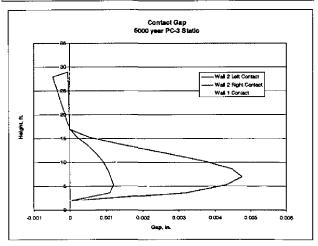


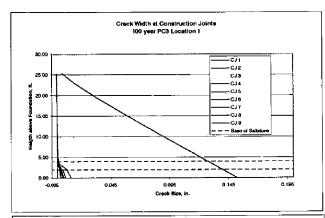


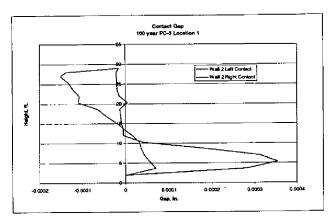


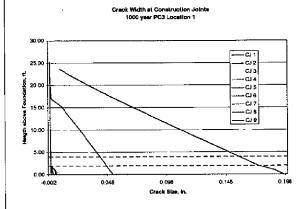


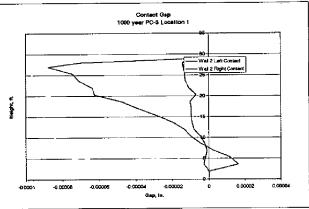


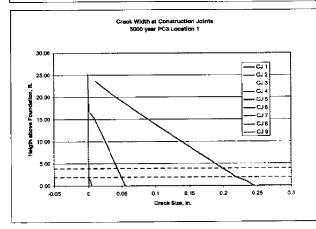


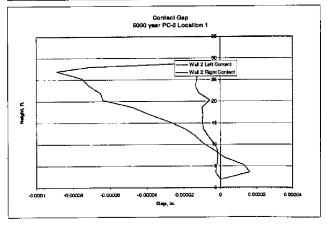


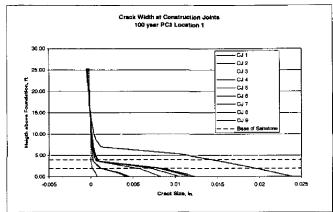


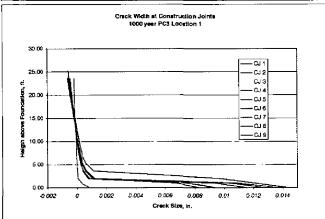


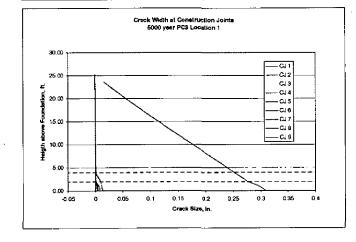


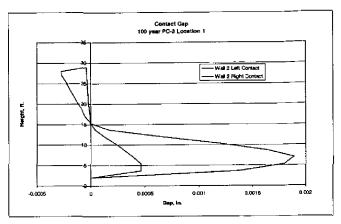


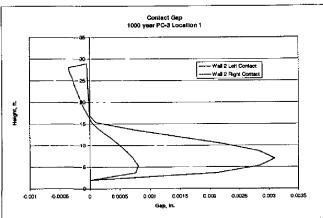


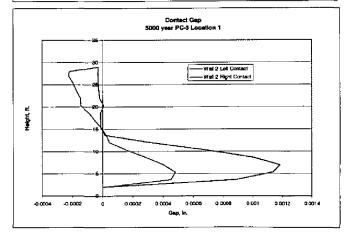


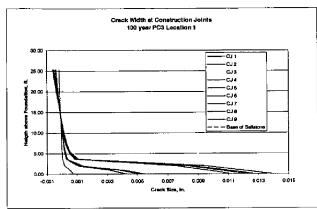


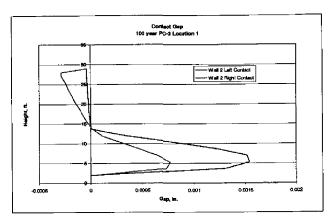


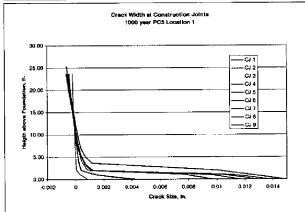


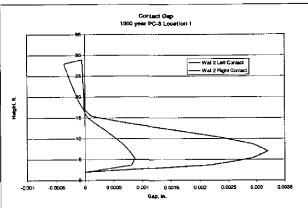


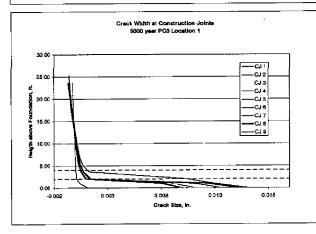


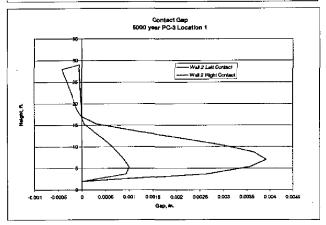




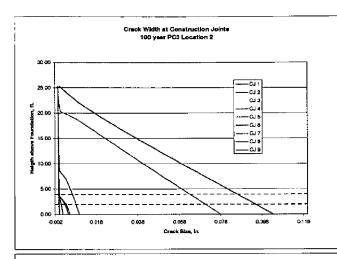


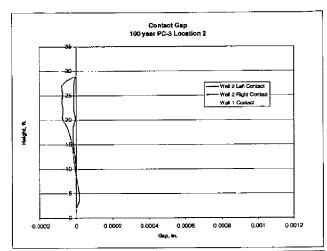


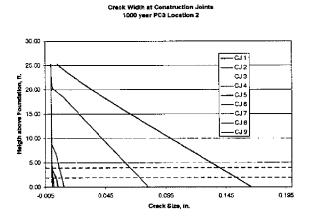


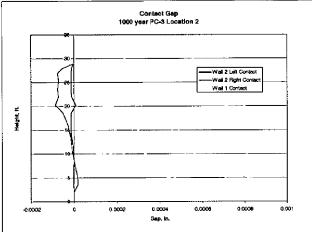


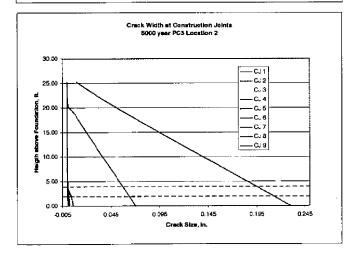
## Low Grout Strength

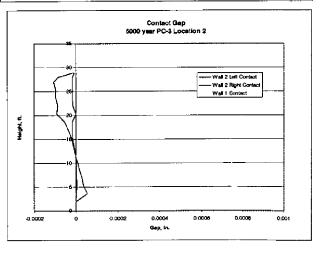


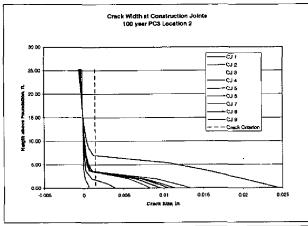


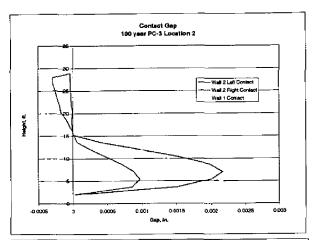


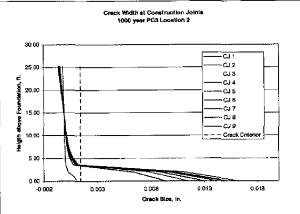


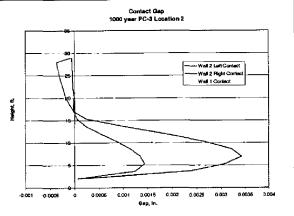


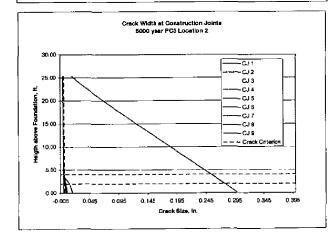


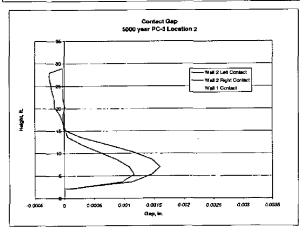




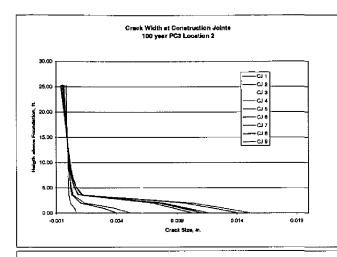


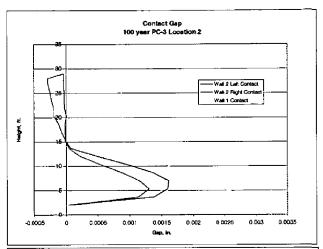


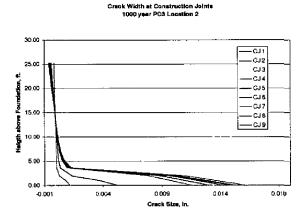


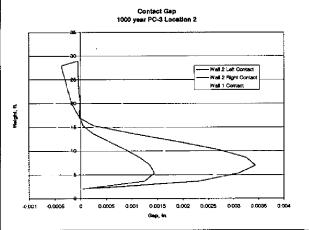


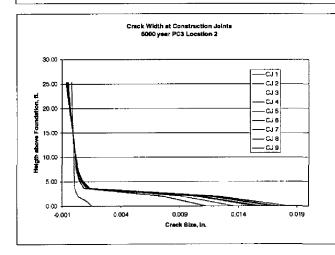
High Grout Strength

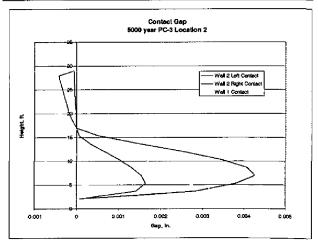


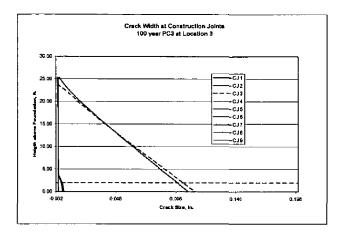


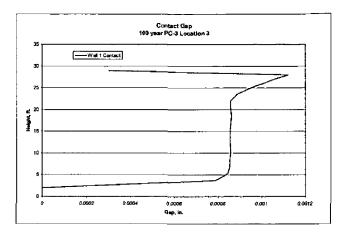


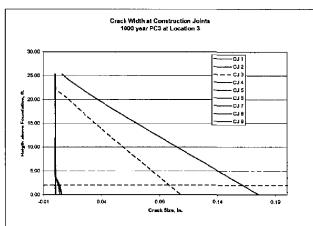


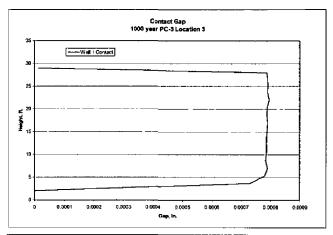


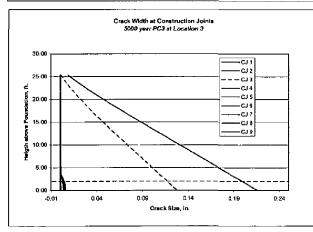


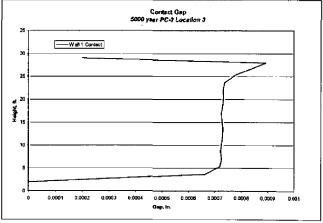


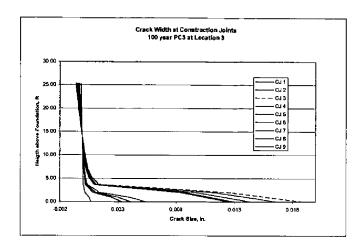


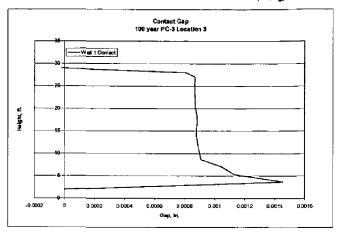


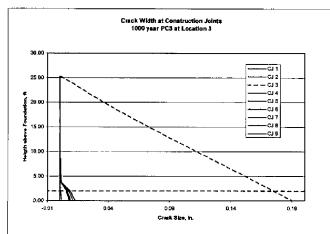


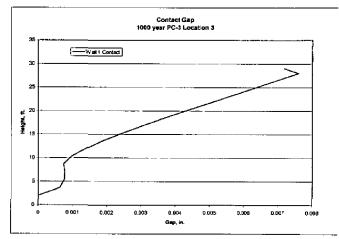


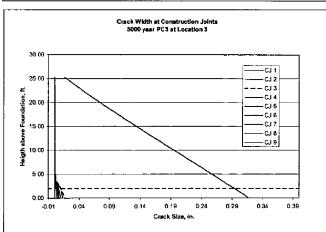


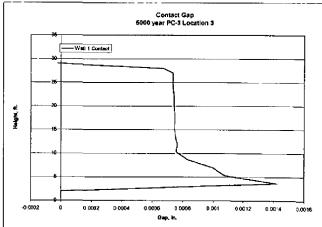


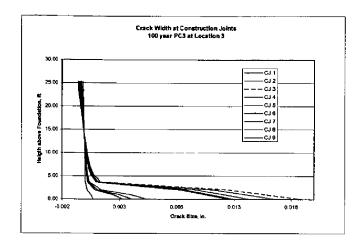


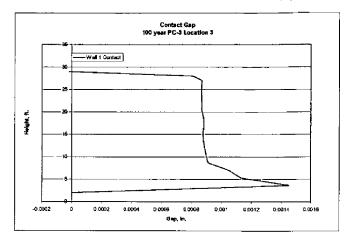


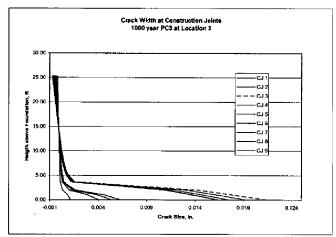


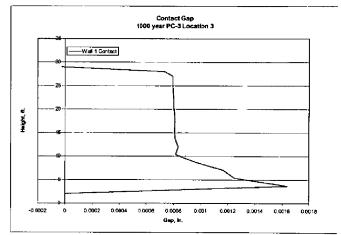


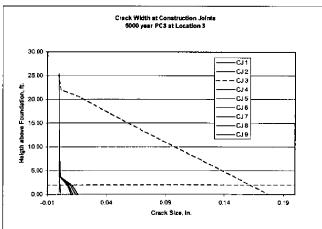


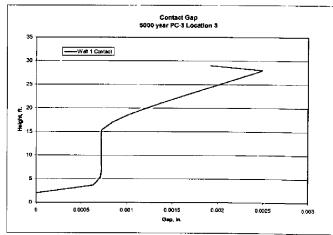


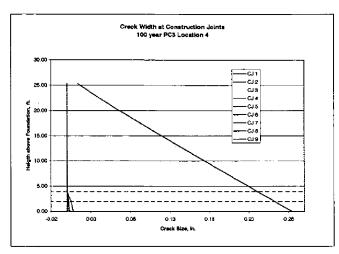


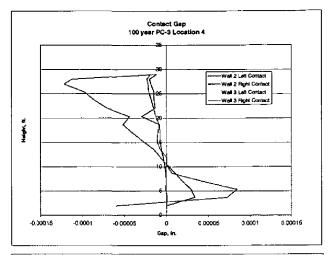


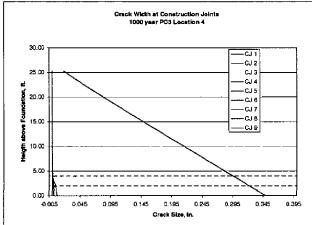


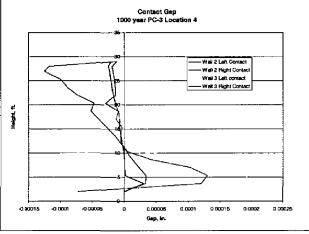


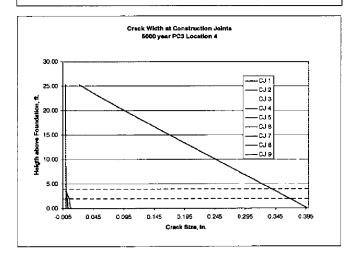


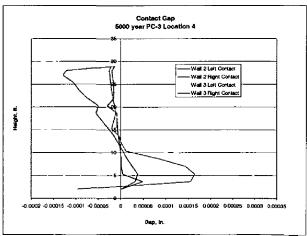


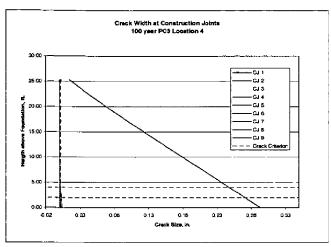


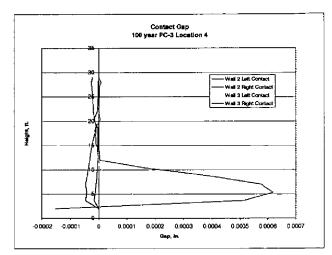


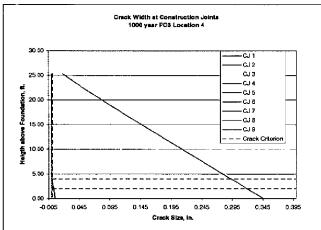


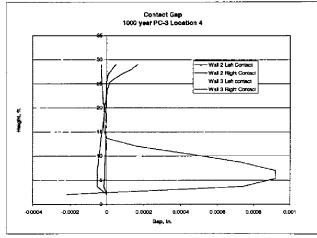


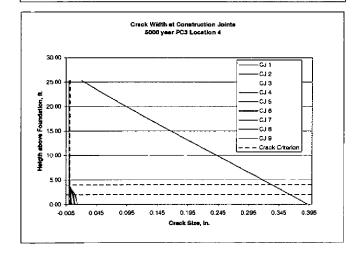


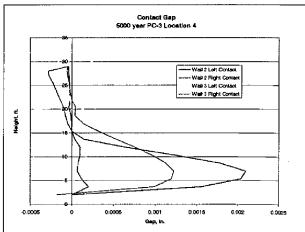


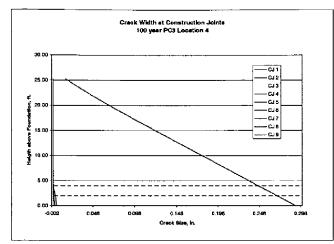


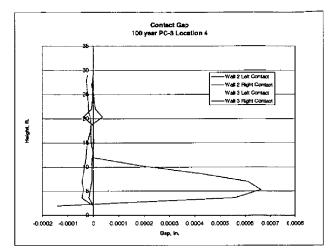


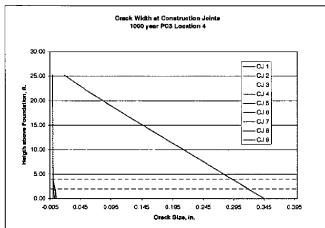


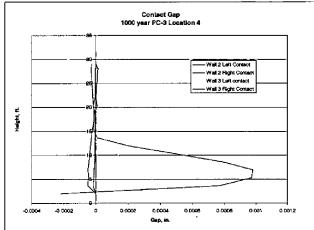


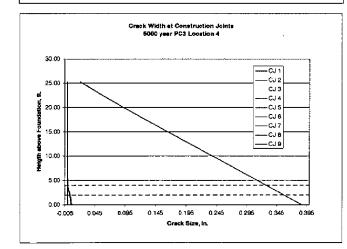


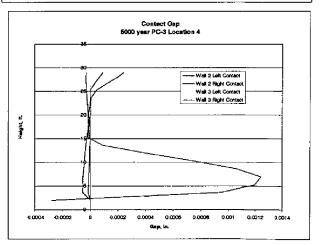


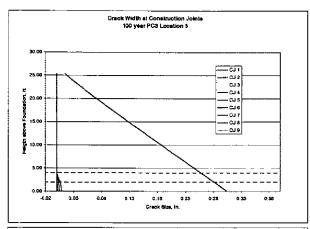


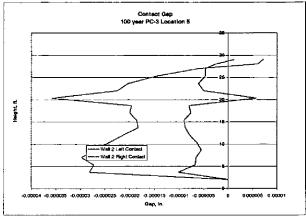


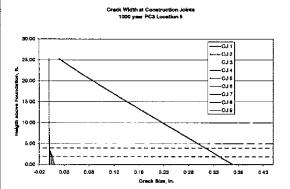


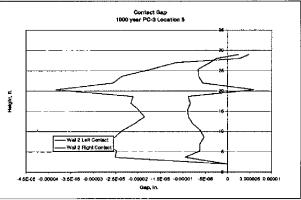


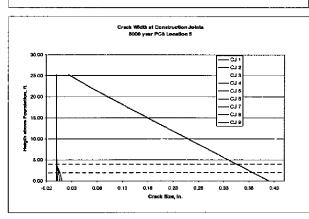


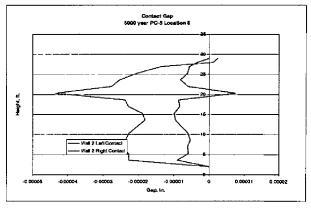


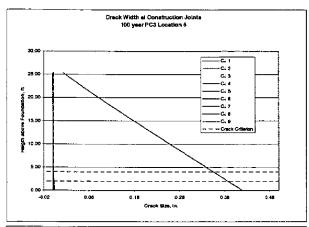


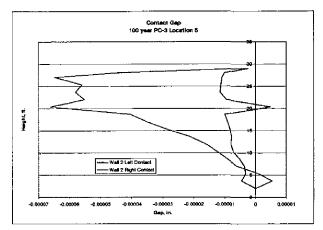


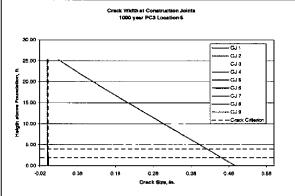


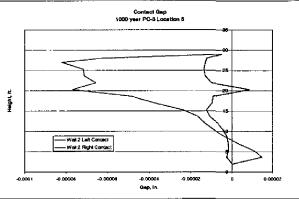


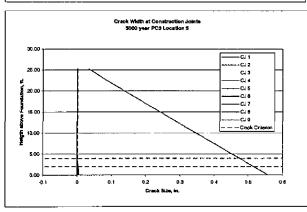


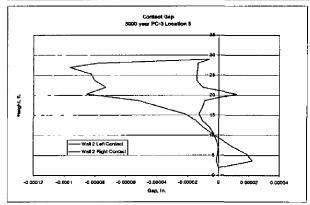


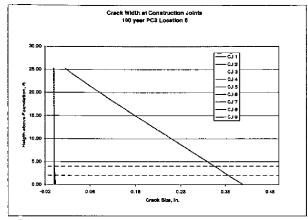


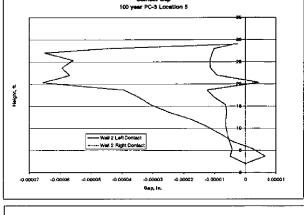


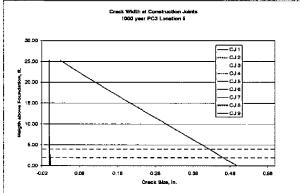


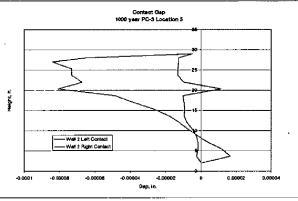


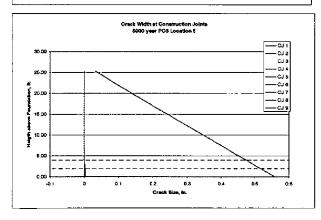


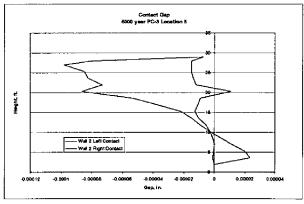




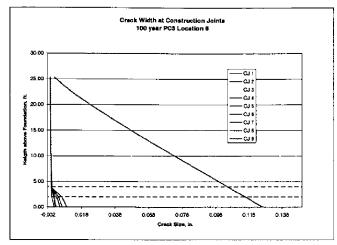


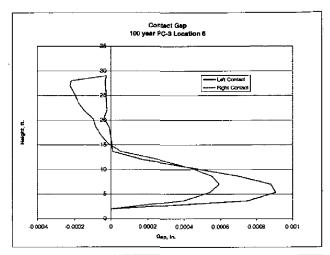


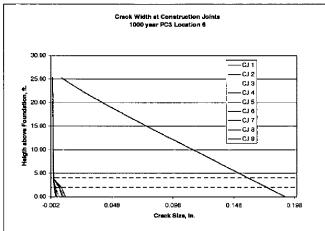


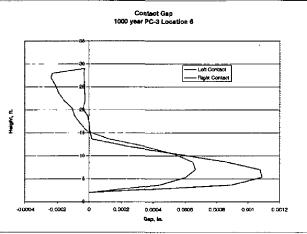


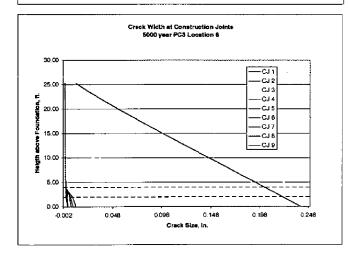
#### PC-3 Differential Settlement - Location 6 Low Grout Strength

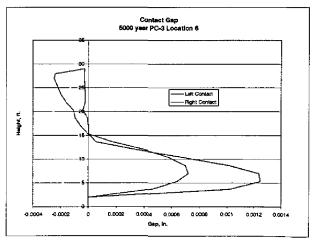


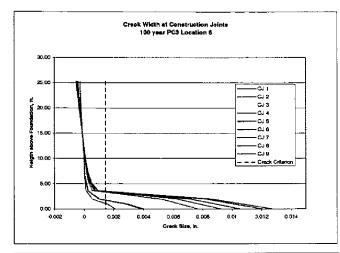


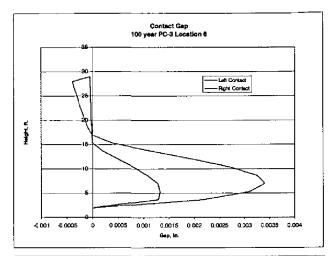


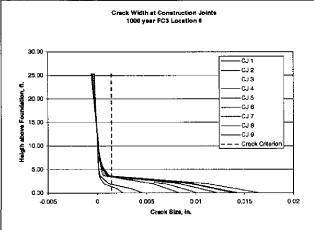


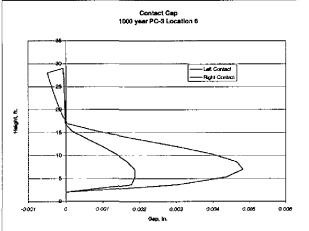


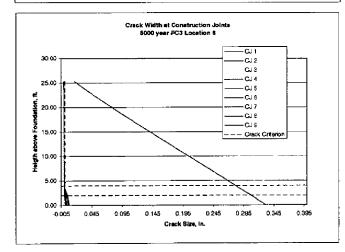


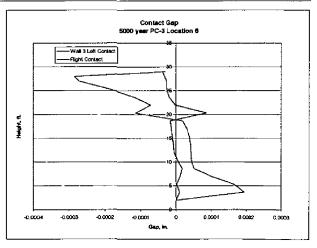




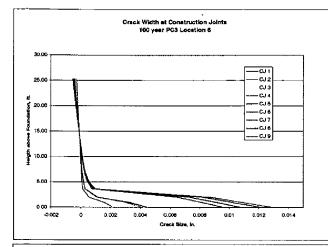


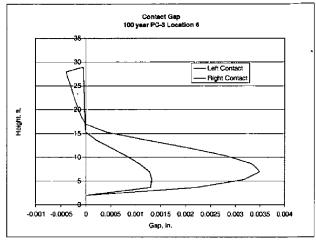


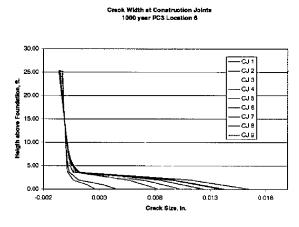


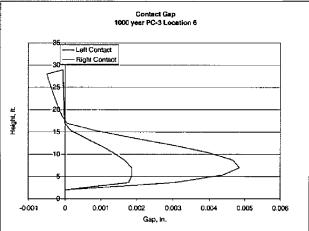


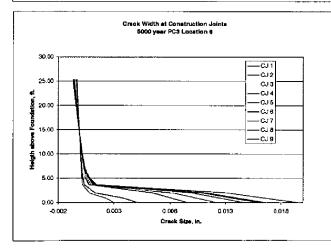
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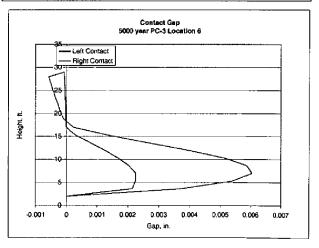


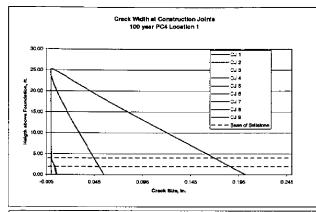


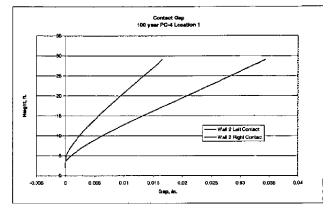


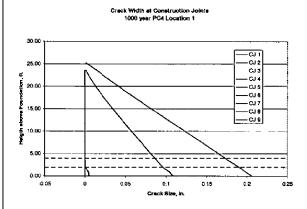


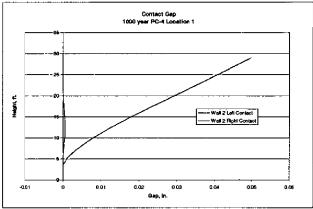


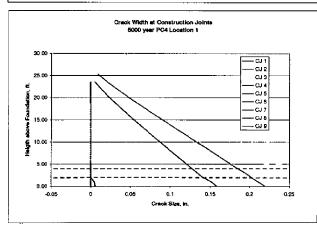


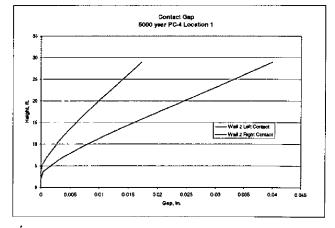




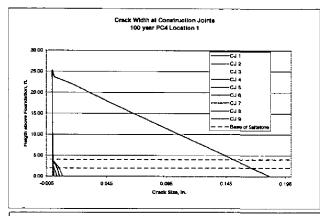


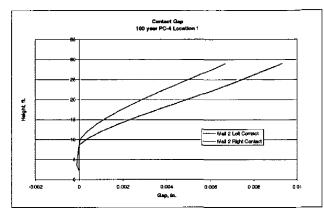


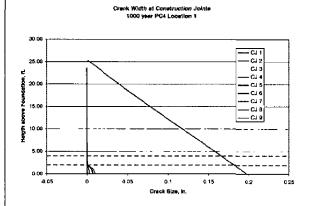


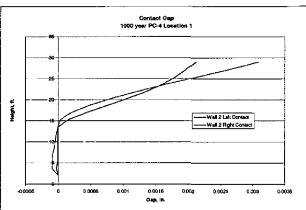


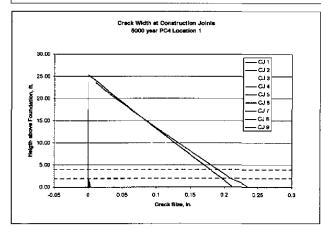
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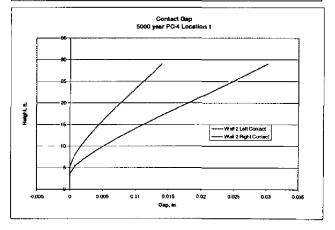






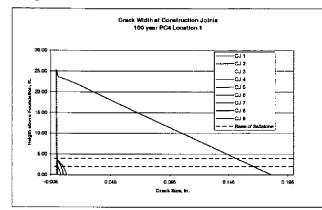


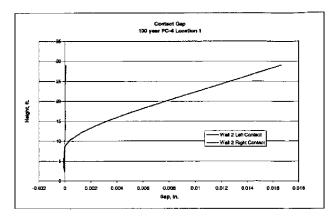


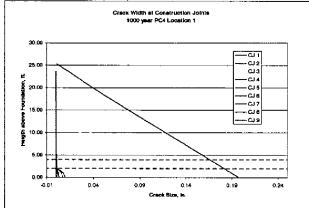


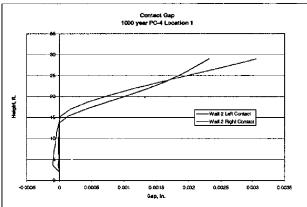
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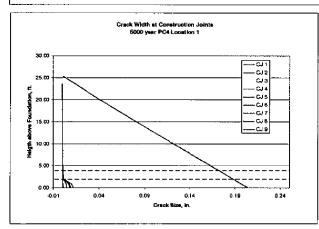
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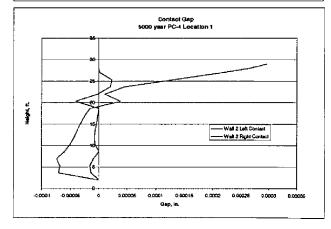


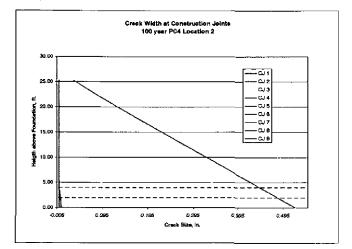


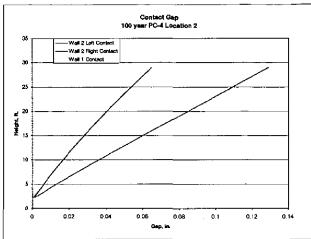


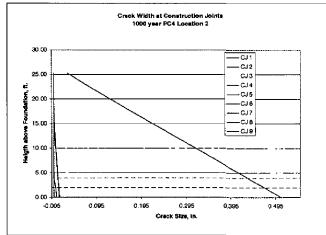


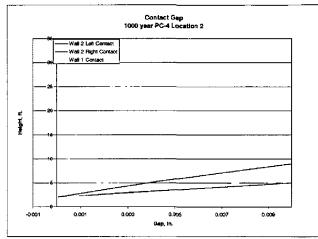


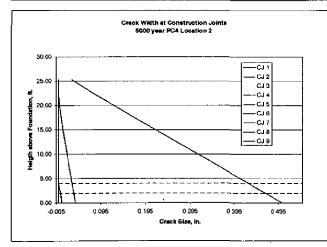


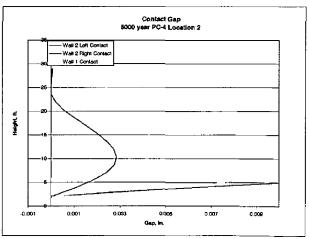




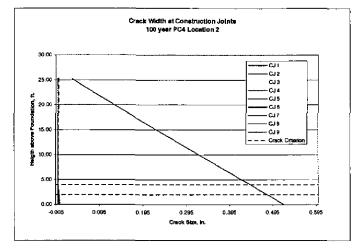


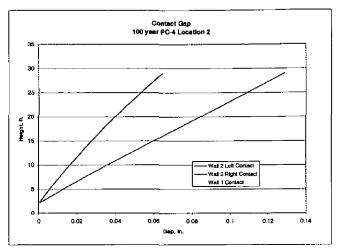


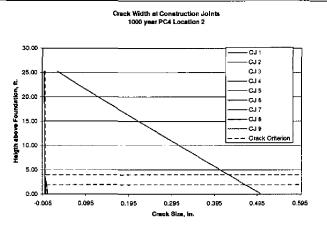


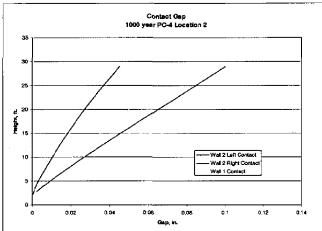


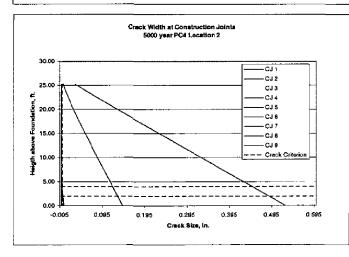
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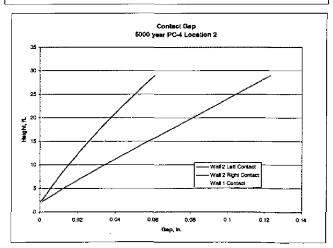






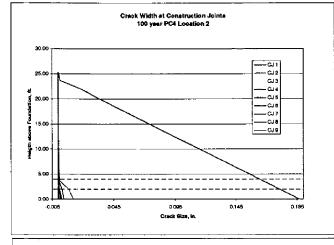


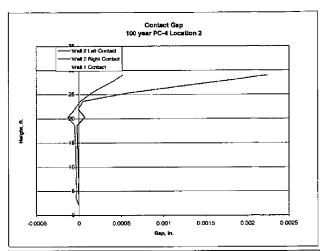


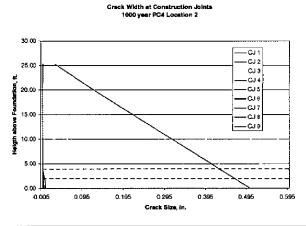


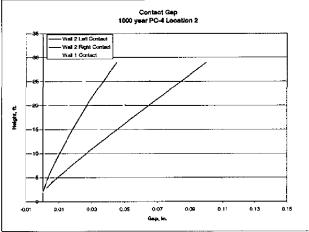
PC-4 Differential Settlement - Location 2 High Grout Strength

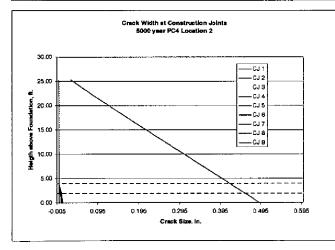
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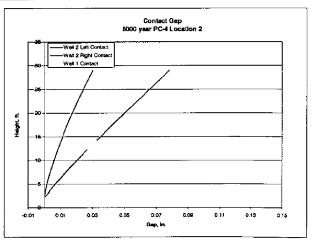


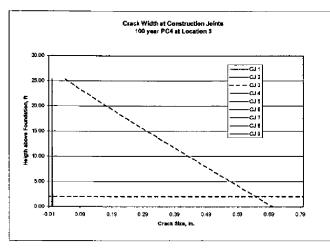


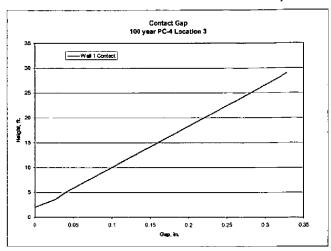


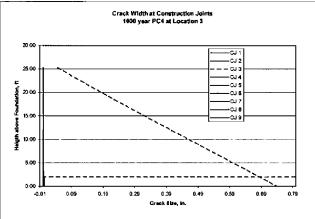


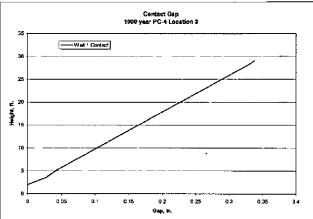


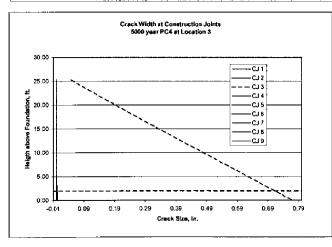


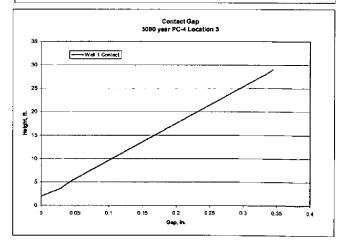


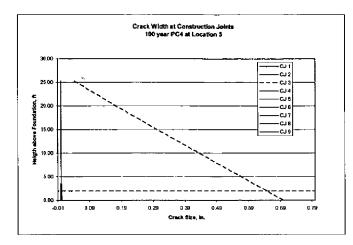


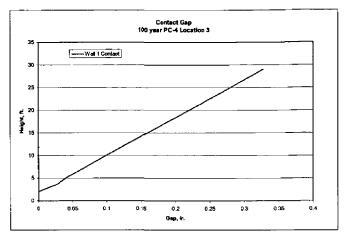


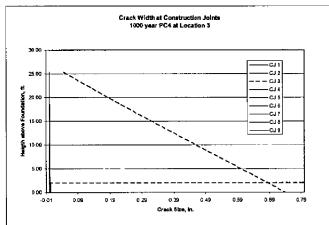


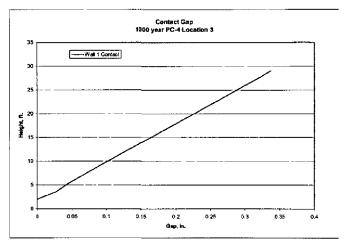


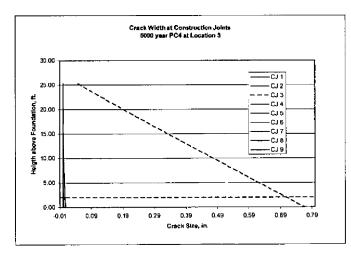


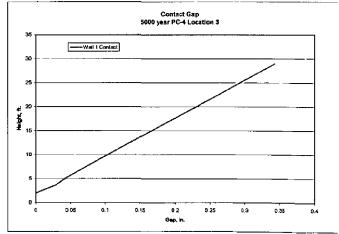


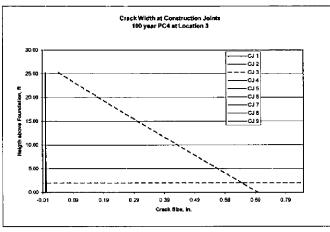


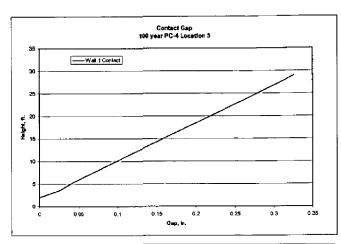


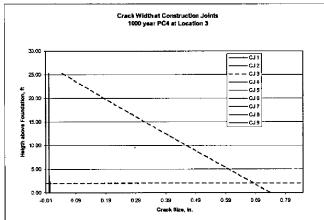


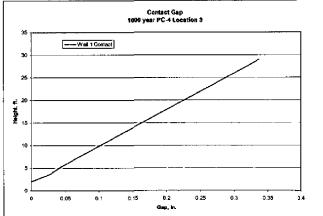


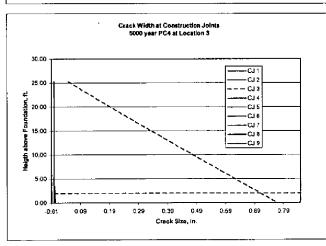


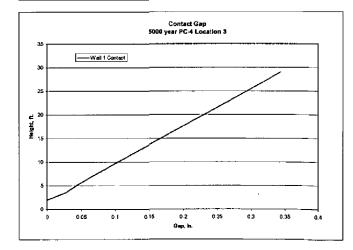


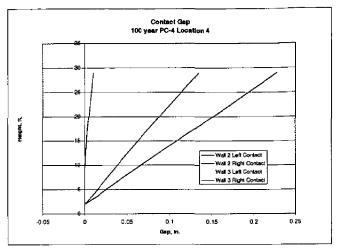


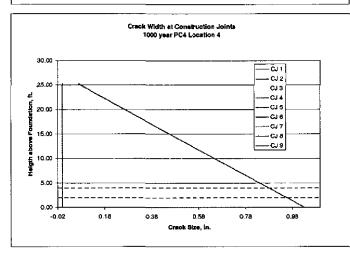


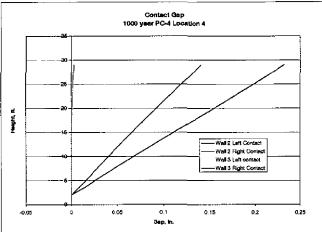


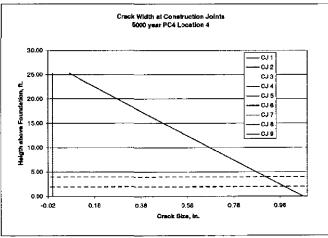


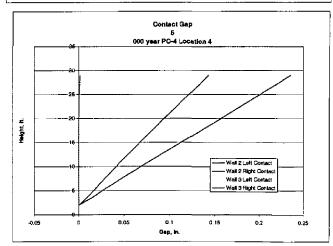




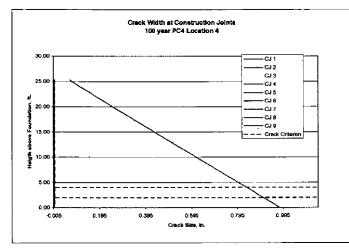


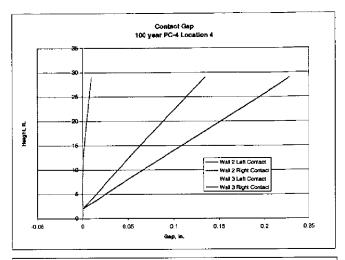


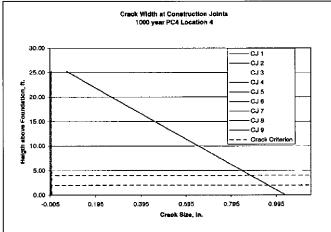


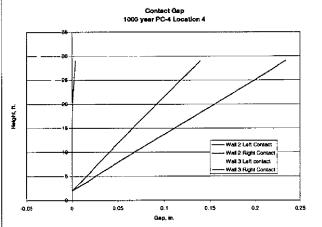


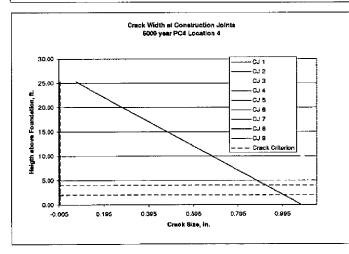
T-CLC- Z-00006

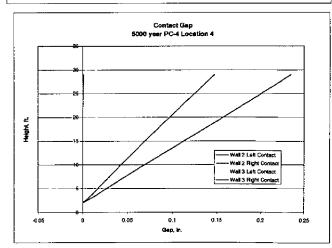




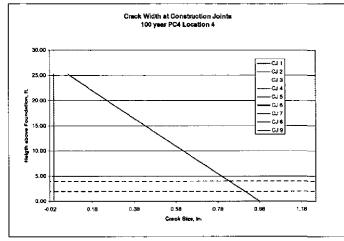


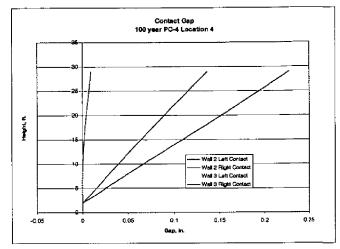


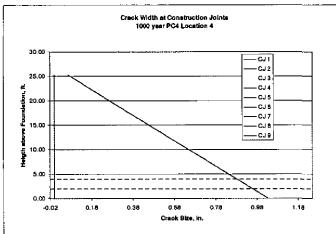


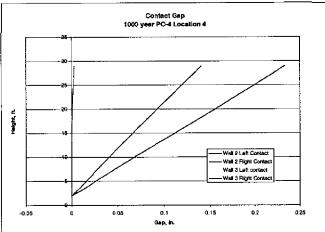


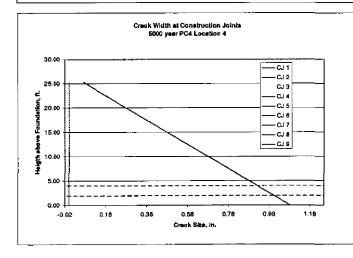
+- CLC - 2-00006 Res. 0

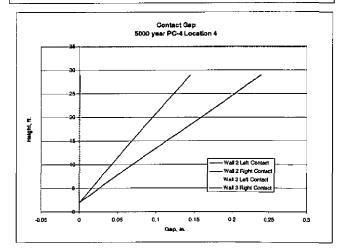




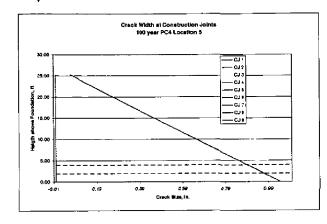


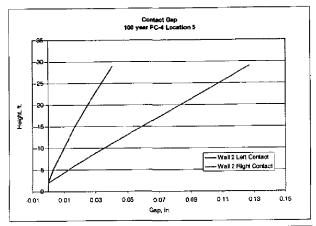


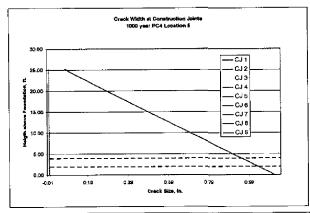


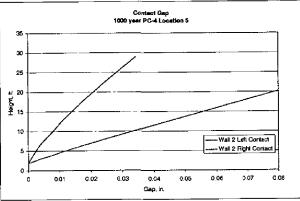


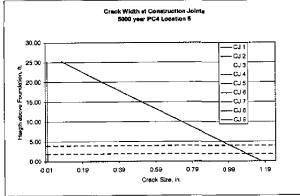
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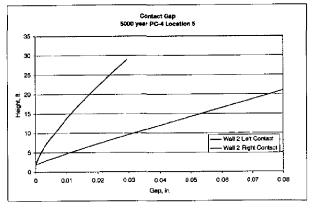


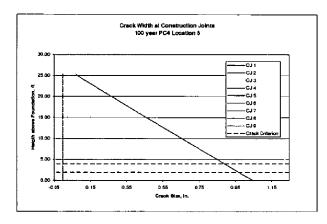


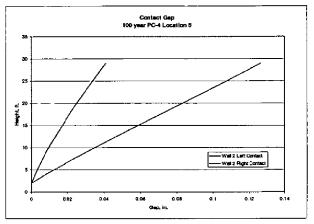


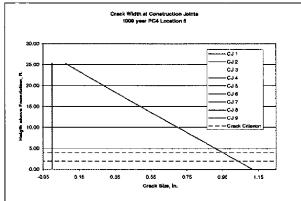


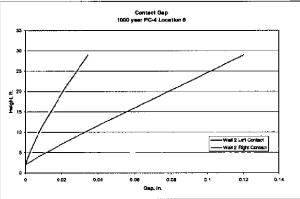


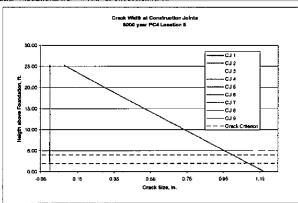


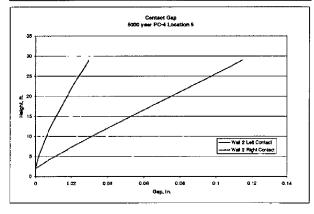




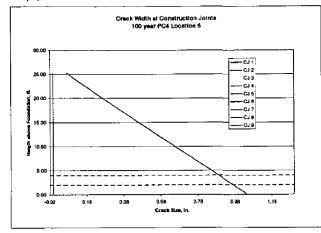


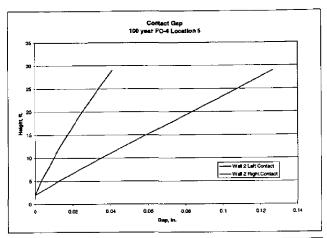


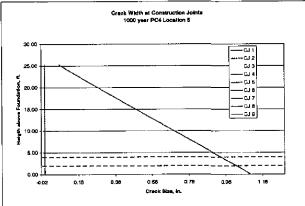


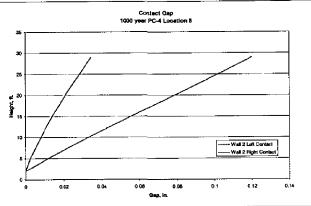


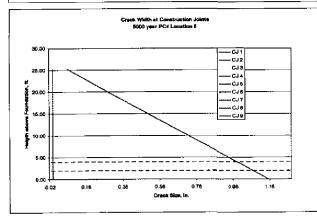
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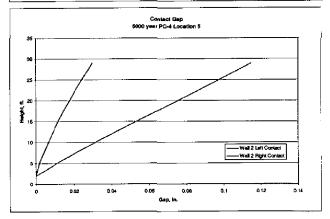


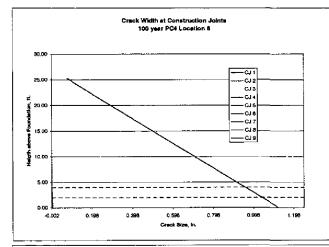


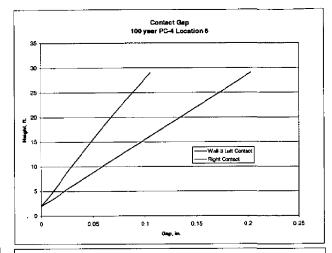


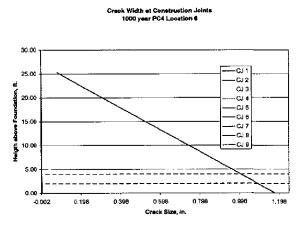


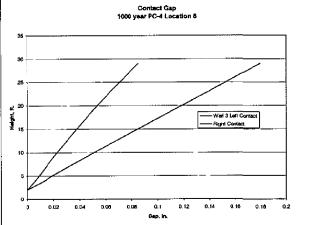


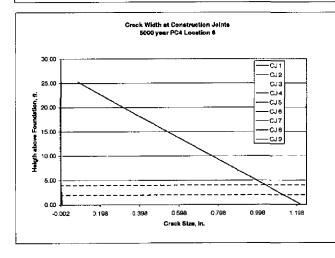


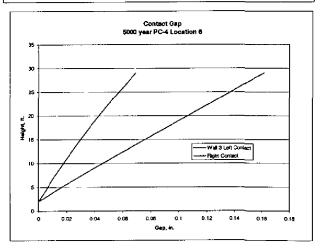




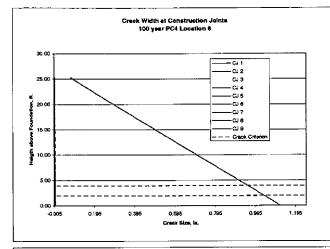


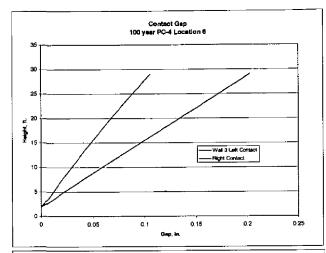


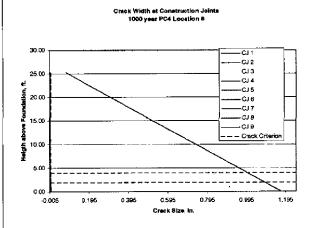


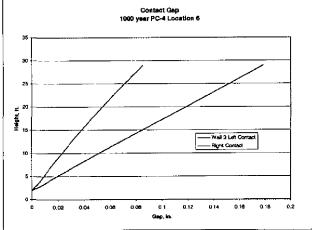


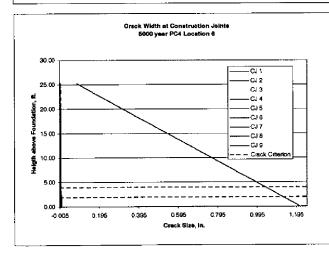
t-c-c-2-00006 Nes.0

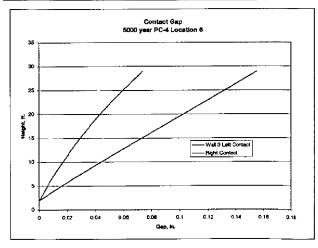




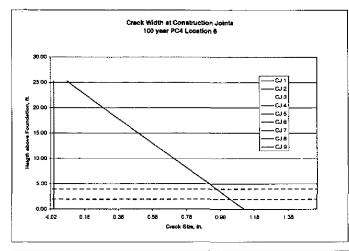


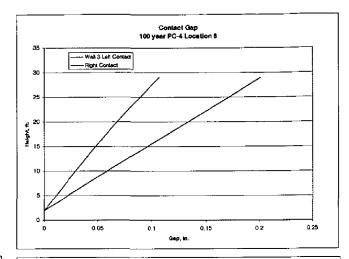


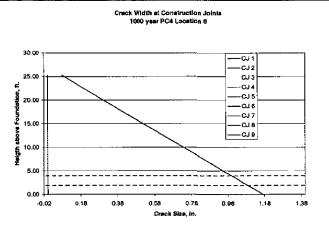


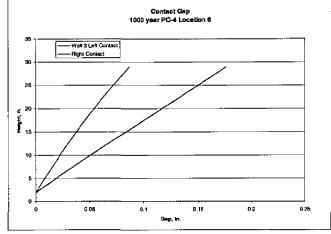


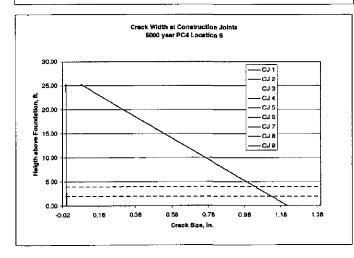
T-CLC-2-00006 New.0

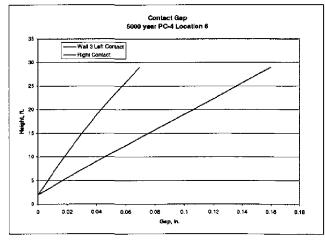












### **Calculation Continuation Sheet**

Calculation No.	Sheet No.	Rev.
T-CLC-Z-00006	491	0

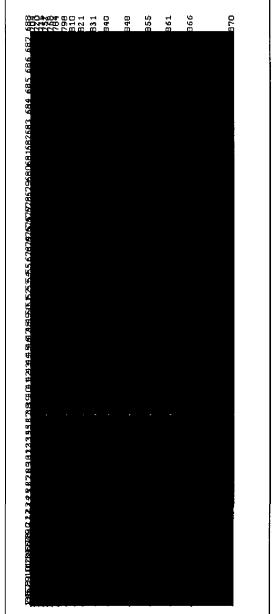
# APPENDIX F

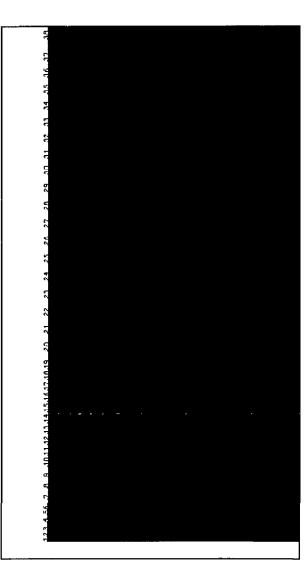
# **ANSYS Model Data**

Model 70 – 2D Axisymmetric Sheet 492 Model 300 – 2D Plane Strain Sheet 515

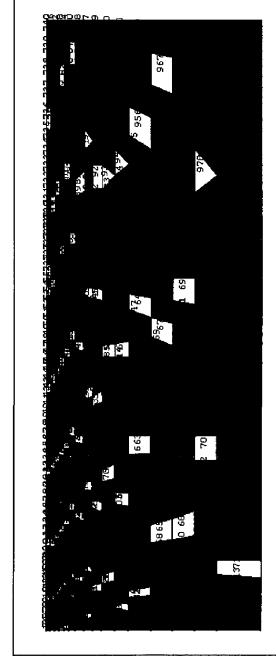
T-CLC- 2-00006, RW.0

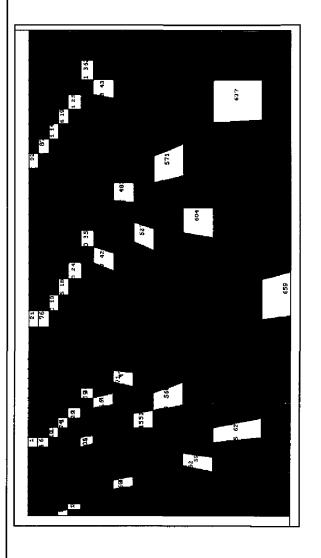
2D Axisymmetric Model ssv7 Node Numbers



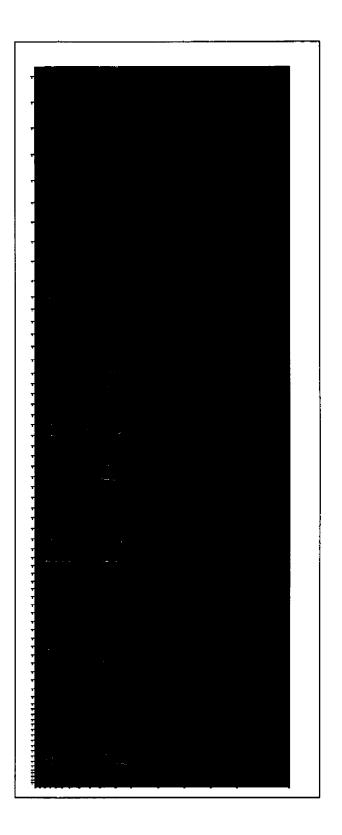


2D Axisymmetric Model ssvleI (elastic), ssvault6 (creep) Element Numbers





2D Axisymmetric Model ssvle1 (elastic), ssvault6 (creep) Material Numbers



### Node Coordinates for Model ssv7

NODE	x	Υ	z	NODE	x	Y	z	NODE	x	Υ	z
1	n o	270	- 0	291	260	165	_ 0	581	^ o	-200	_ 0
2	10	270	ō	292	280	165	ŏ	582	40	-200	ō
3	21	270	Ö	293	300	165	ō	583	80	-200	ō
4	35.5	270	0	294	320	165	0	584	120	-200	0
5	50	270	0	295	352.7273	165	0	585	160	-200	0
6	59	270	0	296	385.4545	165	0	586	200	-200	0
7		270	0	297	418.1818	165	0	587	240	-200	0
8	99.33333	270	0	298		165	0	588	280	-200	0
9	119.5	270	0	299	483.6364	165	0	5B9	320	-200	0
10	139.6667	270	0		516.3636	165	0		401.4286	-200	0
11	159.8333	270	0		549.0909	165	0		482.8571	-200	0
12	180	270	0		581.8182	165	0		564.2857	-200	0
13	200	270	0		614.5455	165	0		645.7143	-200	0
14	220	270	0		647.2727	165	0		727.1429	-200	0
15 16	240 260	270	0	305	680	165	0	595 500	808.5714	-200	0
17	280 280	270 270	0	306 307	710 740	165 165	0	596 597	890 980	-200 -200	0
18	300	270	Ö	308	770	165	0	597 598	1070	-200 -200	0 0
19	320	270	ŏ	309	800	165	ŏ	599	1160	-200	0
20	352.7273		ŏ	310	830	165	ő	600	1250	-200	Ö
21	385.4545	270	ŏ	311	860	165	ŏ	601	1340	-200	ŏ
	418.1818	270	ŏ	312	890	165	ŏ	602	1430	-200	ŏ
	450.9091	270	ō	313	930	165	ŏ	603	1520	-200	ŏ
24		270	ŏ	314	970	165	ō	604	1610	-200	Ö
	516.3636	270	ò	315	1010	165	ō	605	0	-300	ō
26	549.0909	270	0	316	1050	165	0		45.71429	-300	Ō
27	581.8182	270	O	317	1090	165	0	607	91.42857	-300	0
28	614.5455	270	0	318	1130	165	0	608	137.1429	-300	0
29	647.2727	270	O	319	1170	165	0	609	182.8571	-300	0
30	680	270	О	320	1210	165	0	610	228.5714	-300	0
31	710	270	0	321	1250	165	0		274.2857	-300	0
32	740	270	0	322	1290	165	0	612	320	-300	0
33	770	270	0	323	1330	165	0	613	415	-300	0
34	800	270	0	324	1370	165	0	614	510	-300	0
35	830	270	0	325	1410	165	0	615	605	-300	0
36 37	860 890	270	0	326	1450	165	0	616	700	-300	0
38	930	270 270	0 0	327 328	1490 1530	165	0	617	795 890	-300	0
39	970	270	0	329	1570	165 165	0	618	992.8571	-300 -300	0 0
40	1010	270	o o	330	1610	165	0		1095.714	-300	0
41	1050	270	Ö	331	0	140	ŏ	621	1198.571	-300	0
42	1090	270	ŏ	332	16.36	140	ő		1301.429	-300	ő
43	1130	270	Ö	333	32.7273	140	ō		1404.286	-300	ō
44	1170	270	Ö	334	49.0909	140	Ō		1507.143	-300	ō
45	1210	270	0	335	65.4545	140	0	625	1610	-300	0
46	1250	270	0	336	81.8182	140	0	626	0	-400	0
<b>4</b> 7	1290	270	0	337	98.1818	140	0	627	53.33333	-400	0
48	1330	270	0		114.5455	140	0		106.6667	-400	0
49	1370	270	0		130.9091	140	0	629	160	-400	0
50	1410	270	0		147.2727	140	0		213.3333	-400	0
51	1450	270	0	341		140	0		266.6667	-400	0
52	1490	270	0	342	180	140	0	632	320	-400	0
53	1530	270	0	343	200	140	0	633	434	-400	0
54	1570	270	0	344	220	140	0	634	548	-400	0
55 56	1610	270 250	0	345 346	240 260	140	0	635	662	-400	0
56 57	0 10	250 250	0	347	280	140 140	0 0	636 637	776 890	-400 -400	0
58	21	250	0	348	300	140	0	638	1010	-400	0 0
59	35.5	250	Ö	349	320	140	0	639	1130	-400	0
60	50	250	0		352.7273	140	0	640	1250	-400	0
61	59	250	Ŏ		385.4545	140	ő	641	1370	-400	o
	79.16667	250	Ö		418.1818	140	ő	642	1490	-400	0
	99.33333	250	Ö		450.9091	140	Õ	643	1610	-400	Ö
64	119.5	250	Ō		483.6364	140	ŏ	644	0	-500	ŏ
	139.6667	250	0		516.3636	140	ō	645	64	-500	ŏ
	159.8333	250	0		549.0909	140	Ö	646	128	-500	ŏ
67	180	250	0		581.8182	140	0	647	192	-500	Ō
68	200	250	0		614.5455	140	0	648	256	-500	Ċ
69	220	250	0	359	647.2727	140	0	649	320	-500	0

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70	240	250		360		140	0	650	494	500	^
71	260	250	0 0	361	680 710	140 140	0 0	650 651	434 548	-500 500	0
72	280 280	250	Ö	362	740	140				-500	0
73	300	250	Ö	363	740 770		0 0	652	662	-500 -500	0
74	320	250	Ö	364	800	140 140	0	653 654	776 890	-500 500	0
75	352.7273	250 250	0							-500	0
76	385.4545			365	830	140	0	655 656	1034	-500	0
		250	0	366	860	140	0	656	1178	-500	0
77	418.1818	250	0	367	890	140	0	657	1322	-500	0
78	450.9091	250	0	368	930	140	0	658	1466	-500	0
79	483.6364	250	0	369	970	140	0	659	1610	-500	0
80	516.3636	250	0	370	1010	140	0	660	0	-700	0
81	549.0909	250	0	371	1050	140	0	661	80	-700	0
82	581.8182	250	0	372	1090	140	0	662	160	-700	0
83	614.5455	250	0	373	1130	140	0	663	240	-700	0
84	647.2727	250	0	374	1170	140	0	664	320	-700	0
85	680	250	0	375	1210	140	0	<b>6</b> 65	462.5	-700	0
86	710	250	0	376	1250	140	0	666	605	-700	0
87	740	250	0	377	1290	140	0	667	747.5	-700	0
88	770	250	0	378	1330	140	0	668	890	-700	0
89	800	250	0	379	1370	140	0	669	1070	-700	0
90	830	250	0	380	1410	140	0	670	1250	-700	0
91	860	250	0	381	1450	140	0	671	1430	-700	0
92	890	250	0	382	1490	140	0	672	1610	-700	0
93	930	250	0	383	1530	140	0	673	1670	270	0
94	970	250	0	384	1570	140	0	674	1718	270	0
95	1010	250	0	385	1610	140	0	675	1766	270	0
96	1050	250	0	386	0	100	0	676	1814	270	0
97	1090	250	0	387	18	100	0	677	1862	270	0
98	1130	250	0	388	36	100	0	678	1910	270	0
99	1170	250	0	389	54	100	0	679	1985	270	0
100	1210	250	0	390	72	100	0	680	2060	270	0
101	1250	250	0	391	90	100	0	681	2135	270	ō
102	1290	250	0	392	108	100	0	682	2210	270	ō
103	1330	250	0	393	126	100	0	. 683	2285	270	ō
104	1370	250	0	394	144	100	Ō	684	2385	270	ŏ
105	1410	250	Ō	395	162	100	Ō	685	2485	270	ŏ
106	1450	250	Ō	396	180	100	ō	686	2585	270	ō
107	1490	250	ŏ	397	203.3333	100	ō	<b>6</b> 87	2685	270	ŏ
108	1530	250	ō	398	226.6667	100	Õ	688	2785	270	ŏ
109	1570	250	ŏ	399	250	100	Õ	689	1670	250	ő
110	1610	250	ŏ	400	273.3333	100	ő	690	1718	250	ő
111	0	230	ŏ	401	296.6667	100	ő	691	1766	250	0
112	10	230	ŏ	402	320	100	ő	692	1814	250	
113	21	230	ŏ	403	356	100	0	693	1862	250	0
114	35.5	230	ŏ	404	392	100	Ö	694	1910	250	0
115	50	230	ŏ	405	428	100	ő	695	1985	250 250	0
116	59	230	Ö	406	464	100	0	696	2060	250	0
	79.16667	230	ő	407	500	100	Ö	697	2135	250	•
	99.33333	230	Ö	408	536	100	Ö	698	2133		0
119	119.5	230	Ö	409	572	100	Ö	699	2210	250	0
120	139.6667	230	Ö	410	608	100	0	700	2385	250	0
121	159.8333	230	Ö	411	644	100	Ö	701	2365 2485	250	0
122	180	230	ő	412	680	100	Ö	702	2585	250	0
123	200	230	0	413	710	100	0			250	0
124	220	230	0					703 704	2685	250	0
					741.4286	100	0	704 705	2785	250	0
125	240	230	0		778.5714	100	0	705	1670	230	0
126	260	230	0		815.7143	100	0	706	1718	230	0
127	280	230	0		852.8571	100	0	707	1766	230	0
128	300	230	0	418	890	100	0	708	1814	230	0
129	320	230	0	419	932.3529	100	0	709	1862	230	0
	352.7273	230	0		974.7059	100	0	710	1910	230	0
	385.4545	230	0		1017.059	100	0	711	1985	230	0
	418.1818	230	0		1059.412	100	0	712	2060	230	0
	450.9091	230	0		1101.765	100	0	713	2135	230	0
	483.6364	230	0		1144.118	100	0	714	2210	230	0
	516.3636	230	0		1186.471	100	0	715	2285	230	0
	549.0909	230	0		1228.824	100	0	716	2385	230	0
	581.8182	230	0	427	1271.176	100	0	717	2485	230	0
	614.5455	230	0	428	1313.529	100	0	718	2585	230	0
139	647.2727	230	0	429	1355.882	100	0	719	2685	230	Ō
140	680	230	0	430	1398.235	100	0	720	2785	230	ō
141	710	230	0		1440.588	100	0	721	1670	210	ŏ
142	740	230	0	432	1482.941	100	0	722	1718	210	ō
143	770	230	0	433	1525.294	100	0	723	1766	210	Ō

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144	800	230	0		1567.647	100	0	724	1814	210	0
145	830	230	ō	435	1610	100	ō	725	1862	210	ŏ
146	860	230		436	0						
			0			60	0	726	1910	210	0
147	890	230	0	437	20	60	0	727	1985	210	0
148	930	230	0	438	40	60	0	728	2060	210	0
149	970	230	0	439	60	60	0	729	2135	210	0
150	1010	230	0	440	80	60	0	730	2210	210	Ō
151	1050	230	ō	441	100	60	ō	731	2285	210	
	1090										0
152		230	0	442	120	60	0	732	2385	210	0
153	1130	230	0	443	140	60	O	733	2485	210	0
154	1170	230	0	444	160	60	0	734	2585	210	0
155	1210	230	0	445	180	60	0	735	2685	210	0
156	1250	230	0	446	208	60	Ō	736	2785	210	ō
157	1290	230	ő	447	236	60	Ö	737			
									1670	190	0
158	1330	230	0	448	264	60	0	738	1718	190	0
159	1370	230	0	449	292	60	0	739	1766	190	0
160	1410	230	0	450	320	60	0	740	1814	190	0
161	1450	230	0	451	360	60	0	741	1862	190	0
162	1490	230	Ö	452	400	60	ŏ	742	1910	190	ŏ
163	1530	230	ő								
				453	440	60	0	743	1985	190	0
164	1570	230	0	454	480	60	0	744	2060	190	0
165	1610	230	0	455	520	60	0	745	2135	190	0
1 <del>6</del> 6	0	210	0	456	560	60	0	746	2210	190	0
167	10	210	0	457	600	60	0	747	2285	190	0
168	21	210	ō	458	640	60	ŏ	748	2385	190	ŏ
	35.5	210	ŏ	459							
169					680	60	0	749	2485	190	0
170	50	210	0	460	716.6667	60	0	750	2585	190	0
171	65	210	0	461	760	60	0	751	2685	190	0
172	79.16667	210	0	462	803.3333	60	0	752	2785	190	C
173	99.33333	210	0	463	846.6667	60	0	753	1670	165	Ō
174	119.5	210	0	464	890	60	ō	754	1718	165	ŏ
175	139.6667	210	ō	465	935		ŏ	755			
						60			1766	165	0
176	159.8333	210	0	466	980	60	0	756	1814	165	0
177	180	210	0	467	1025	60	0	757	1862	165	0
178	200	210	0	468	1070	60	0	758	1910	165	0
179	220	210	0	469	1115	60	0	759	1985	165	0
180	240	210	0	470	1160	60	Ō	760	2060	165	ō
181	260	210	Ŏ	471	1205	60	ŏ	761	2135	165	Ö
182	280	210	ő								
				472	1250	60	0	762	2210	165	0
183	300	210	0	473	1295	60	0	763	2285	165	0
184	320	210	0	474	1340	60	0	764	2385	165	0
185	352.7273	210	0	475	1385	60	0	765	2485	165	0
186	385.4545	210	0	476	1430	60	0	766	2585	165	0
187	418.1818	210	0	477	1475	60	ō	767	2685	165	ŏ
188	450.9091	210	ŏ	478	1520		Ö				
						60		768	2785	165	0
	483.6364	210	0	479	1565	60	0	769	1670	140	0
	516.3636	210	0	480	1610	60	0	770	1718	140	0
191	549.0909	210	0	481	0	20	0	771	1766	140	0
192	581.8182	210	0	482	22.5	20	0	772	1814	140	0
	614.5455	210	Ó	483	45	20	ō	773	1862	140	ŏ
	647.2727	210	ŏ	484	67.5	20	ŏ	774	1910	140	
195											0
	680	210	0	485	90	20	0	775	1985	140	0
196	710	210	0	486	112.5	20	0	776	2060	140	0
197	740	210	0	487	135	20	0	777	2135	140	0
198	770	210	0	488	157.5	20	0	778	2210	140	0
199	800	210	0	489	180	20	0	779	2285	140	Ó
200	830	210	ō	490	215	20	Ŏ	780	2385	140	Ö
201	860	210	ŏ	491	250	20		781	2485		
							0			140	0
202	890	210	0	492	285	20	0	782	2585	140	0
203	930	210	0	493	320	20	O	783	2685	140	0
204	970	210	0	494	364.2857	20	0	784	2785	140	0
205	1010	210	0	495	408.5714	20	0	785	1670	100	ō
206	1050	210	ō		452.8571	20	Ŏ	786	1730	100	
		210									0
207	1090		0		497.1429	20	0	787	1790	100	0
208	1130	210	0		541.4286	20	0	788	1850	100	0
209	1170	210	0	499	585.7143	20	0	789	1910	100	0
210	1210	210	0	500	630	20	0	790	2005	100	ŏ
211	1250	210	ŏ	501	680	20	ő	791	2100	100	0
	1290	210	Ö	502	734	20					
212							0	792	2195	100	0
213	1330	210	0	503	786	20	0	793	2290	100	0
214	1370	210	0	504	838	20	0	794	2385	100	0
215	1410	210	0	505	890	20	0	795	2485	100	0
216	1450	210	0	506	941.4286	20	0	796	2585	100	ŏ
217	1490	210	ō		992.8571	20	ŏ	797	2685	100	0
	1700		-	001			•		2000	100	J

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218	1530	210	0		1044.286	20	0	798	2785	100	0
219	1570	210	0	509	1095.714	20	0	799	1685	60	0
220	1610	210	0	510	1147.143	20	0	800	1760	60	0
221	0	190	0	511	1198.571	20	0	801	1835	60	0
222 223	12	190	0	512	1250	20	0	802	1910	60	0
224	25 40	190 190	0 0	513 514	1301.429 1352.857	20 20	0 0		2019.375 2128.75	60 60	0
225	52	190	Ö	515	1404.286	20	0	804 805	2238.125	60	0
226	65	190	ŏ	516	1455.714	20	ŏ	806	2347.5	60	ŏ
227	82	190	ŏ	517	1507.143	20	ŏ		2456.875	60	ŏ
228	99.33333	190	ō	518	1558.571	20	ō	808	2566.25	60	ō
229	119.5	190	0	519	1610	20	0	809	2675.625	60	ō
230	139.6667	190	0	520	0	-40	0	810	2785	60	0
231	159.8333	190	0	521	25.71429	-40	0	811	1710	20	0
232	180	190	0	522	51.42857	-40	0	812	1810	20	0
233	200	190	0		77.14286	-40	0	813	1910	20	0
234	220	190	0		102.8571	-40	0		2019.375	20	0
235	240	190	0	525	128.5714	-40	0	815	2128.75	20	0
236	260	190	0	526	154,2857	-40	0	816	2238.125	20	0
237 238	280 300	190	0	527 528	180	-40 -40	0 0	817	2347.5	20	0
239	320	190 190	Ö	529	226.6667 273.3333	-40 -40	0	819	2456.875 2566.25	20 20	0
240	352.7273	190	Ö	530	320	-40	Ö	820	2675.625	20	ő
241	385.4545	190	ŏ	531	371.6667	-40	ŏ	821	2785	20	Ö
	418.1818	190	ŏ	532	423.3333	-40	ŏ	822	1727.5	-40	Ö
243	450.9091	190	ō	533	475	-40	Ō	823	1845	-40	ō
244	483.6364	190	Ō	534	526.6667	-40	Ō	824	1962.5	-40	ō
245	516.3636	190	0	535	578.3333	-40	0	825	2080	-40	0
246	549.0909	190	0	536	630	-40	0	826	2197.5	-40	0
247	581.8182	190	0	537	6 <del>9</del> 5	-40	0	827	2315	-40	0
248	614.5455	190	0	538	760	-40	0	828	2432.5	-40	0
249	647.2727	190	0	539	825	-40	0	829	2550	-40	0
250	680	190	0	540	890	-40	0	830	2667.5	-40	0
251	710	190	0	541	950 1010	-40	0	831	2785	-40	0
252 253	740 770	190 190	0	542 543	1070	-40 -40	0 0		1740.556 1871.111	-100 -100	0
254	800	190	ŏ	544	1130	-40	Ö	834	2001.667	-100	0
255	830	190	ŏ	545	1190	-40	ő		2132.222	-100	0
256	860	190	ŏ	546	1250	-40	ŏ		2262.778	-100	ŏ
257	890	190	0	547	1310	-40	Ö		2393.333	-100	ŏ
258	930	190	0	548	1370	-40	0	838	2523.889	-100	Ō
259	970	190	0	549	1430	-40	0	839	2654.444	-100	0
260	1010	190	0	550	1490	-40	0	840	2785	-100	0
261	1050	190	0	551	1550	-40	0	841	1756.875	-200	0
262	1090	190	0	552	1610	-40	0	842	1903.75	-200	0
263	1130	190	0	553	0	-100	0		2050.625	-200	0
264 265	1170 1210	190 190	0	554 555	30 60	-100 -100	0	844	2197.5 2344.375	-200 -200	0
266	1250	190	Ö	556	90	-100	ŏ	846	2491.25	-200	Ö
267	1290	190	Ŏ	557	120	-100	ŏ		2638.125	-200	Ö
268	1330	190	Ō	558	150	-100	ō	848	2785	-200	Ö
269	1370	190	0	559	180	-100	0		1777.857	-300	0
270	1410	190	0	560	226.6667	-100	0	850	1945.714	-300	0
271	1450	190	0	561	273.3333	-100	0	851	2113.571	-300	0
272	1490	190	0	562	320	-100	0		2281.429	-300	0
273	1530	190	0	563	382	-100	0		2449.286	-300	0
274	1570	190	0	564	444	-100	0		2617.143	-300	0
275	1610	190	0	565	506	-100	0	855	2785	-300	0
276	0	165	0	566 567	568	-100 100	0		1805.833	-400 400	0
277 278	12 25	165 165	0 0	567 568	630 716.6667	-100 -100	0 0	857 858	2001.667 2197.5	-400 -400	0
279	40	165	Ö	569	803.3333	-100	Ö		2393.333	-400	0
280	52	165	o	570	890	-100	ő		2589.167	-400	0
281	65	165	Ö	571	962	-100	ő	861	2785	-400	ŏ
282	82	165	ō	572	1034	-100	Ö	862	1845	-500	ō
	99.33333	165	Ö	573	1106	-100	ō	863	2080	-500	ŏ
284	119.5	165	0	574	1178	-100	0	864	2315	-500	ō
285	139.6667	165	0	575	1250	-100	0	865	2550	-500	0
286	159.8333	165	0	576	1322	-100	0	866	2785	-500	0
287	180	165	0	577	1394	-100	0	867	1903.75	-700	0
288	200	165	0	578	1466	-100	0	868	2197.5	-700	0
289	220	165 165	0	579 590	1538	-100 -100	0	869	2491.25	-700 700	0
290	240	165	0	580	1610	-100	Э	870	2785	-700	0

Model 2 2D Axisymmetric

#### Elements

Liettleitte																								
ELEM 1	TAN	TYP	REL E	SY S	EC	i	NODES		ELEM N	T TAN	YP I	REL E	SY S	EC	١	NODES	ELEM N	/AT T	YP R	EL ES	Y S	EC	i	NODES
1	1	1	1	0	1	1	2 57	56	342	4	1	1	0	1	292	293 348 347	640	7	1	1	0	1	570	571 597 596
2	1	1	1	0	1	2	3 58		343	4	1	1	0		293	294 349 348	641	7	1	1	0		571	572 598 597
3	1	1	1	0	1	3	4 59		344	4	1	1	0		294	295 350 349	642	7	1	1	0		572	573 598 598
4 5	1	1	1	0	1	4 5	5 60 6 61		345 346	4	1	1	0		295 296	296 351 350	643	7	1	1	0		573	574 599 598
6	1	1	i	Ö	1	6	7 62		347	4	1	1	ŏ		297	297 352 351 298 353 352	644 645	7 7	1	1	0		574 575	575 600 599 576 601 600
7	1	1	1	ō	1	7	8 63		348	4	1	1	ŏ		298	299 354 353	646	7	i	i	ō		576	577 602 601
8	1	1	1	0	1	8	9 64		349	4	1	1	ō		299	300 355 354	647	7	1	1	ō		577	578 602 602
9	1	1	1	0	1	9	10 65	64	350	4	1	1	0	1	300	301 356 355	648	7	1	1	0	1	578	579 603 602
10	1	1	1	0	1	10	11 66		351	4	1	1	0		301	302 357 356	649	7	1	1	0		579	580 604 603
11	1	1	1	0	1	11	12 67		352	4	1	1	0		302	303 358 357	650	7	1	1	0		581	582 606 605
12 13	1	1	1	0	1	12 13	13 68 14 69		353 354	4	1	1	0		303 304	304 359 358 305 360 359	651	7	1	1	0		582	583 607 606
14	i	i	i	ŏ	i	14	15 70		354 355	4 4	1	1	0		305	306 361 360	652 653	7 7	1	i	0		583 584	584 608 607 585 609 608
15	1	1	i	ŏ	1	15	16 71		356	4	1	1	ŏ		306	307 362 361	654	7	i	i	ŏ		585	586 609 609
16	1	1	1	0	1	16	17 72	71	357	4	1	1	0		307	308 363 362	655	7	1	1	0		586	587 610 609
17	1	1	1	0	1	17	18 73	72	358	4	1	1	0	1	308	309 364 363	656	7	1	1	0	1	587	588 611 610
18	1	1	1	0	1	18	19 74		359	4	1	1	0		309	310 365 364	657	7	1	1	0		588	589 612 611
19	1	1	1	0	1	19	20 75		360	4	1	1	0		310	311 366 365	658	7	1	1	0		589	590 613 612
20 21	1	1	1	0	1	20 21	21 76 22 77		361 362	4	1	1	0		311 312	312 367 366 313 368 367	<b>6</b> 59 660	7 7	1	1	0		590 591	591 614 613 592 615 614
22	1	i	i	ŏ	i	22	23 78		363	4	i	i	ŏ		313	314 369 368	661	7	i	1	ŏ		592	593 615 615
23	1	1	1	ō	1	23	24 79		364	4	1	1	ō		314	315 370 369	662	7	i	1	Ö		593	594 616 615
24	1	1	1	0	1	24	25 80	79	365	4	1	1	Ó		315	316 371 370	663	7	1	1	Ö		594	595 617 616
26	1	1	1	0	1	25	26 81		366	4	1	1	0	1	316	317 372 371	664	7	1	1	0	1	595	596 618 617
27	1	1	1	0	1	26	27 82		367	4	1	1	0		317	318 373 372	665	7	1	1	0		596	597 619 618
28	1	1	1	0	1	27	28 83		368	4	1	1	0		318	319 374 373	666	7	1	1	0		597	598 620 619
29 30	1	1	1	0	1	28 29	29 84 30 85		369 370	4 4	1	1	0		319 320	320 375 374 321 376 375	667 668	7 7	1	1	0		598 599	599 621 620 600 622 621
31	i	i	i	ŏ	1	30	31 86		371	4	i	i	ŏ		321	322 377 376	669	7	i	i	0		600	601 622 622
32	1	1	1	ō	1	31	32 87		372	4	1	1	ŏ		322	323 378 377	670	7	1	i	Ö		601	602 623 622
33	1	1	1	0	1	32	33 88	87	373	4	1	1	0		323	324 379 378	671	7	1	1	0		602	603 624 623
34	1	1	1	0	1	33	34 89		374	4	1	1	0		324	325 380 379	672	7	1	1	0	1	603	604 625 624
35	1	1	1	0	1	34	35 90		375	4	1	1	0		325	326 381 380	673	8	1	1	0		605	606 627 626
36 37	1	1	1	0	1	35 36	36 91 37 92		376	4	1	1	0		326	327 382 381	674	8	1	1	0		606	607 628 627
38	1	i	1	ŏ	1	37	38 93		377 378	4 4	1	1	0		327 328	328 383 382 329 384 383	675 676	8 8	1	1	0		607 608	608 629 628 609 629 629
39	i	i	i	ō	1	38	39 94		379	4	i	i	ŏ		329	330 385 384	677	8	1	i	0		609	610 630 629
40	1	1	1	ō	1	39	40 95		390	5	1	1	ŏ		331	332 387 386	678	8	i	i	ō		610	611 631 630
41	1	1	1	0	1	40	41 96	95	391	5	1	1	0		332	333 388 387	679	8	1	1	0		611	612 632 631
42	1	1	1	0	1	41	42 97		392	5	1	1	0		333	334 389 388	680	8	1	1	0		612	613 633 632
43	1	1	1	0	1	42	43 98		397	5	1	1	0		338	339 393 392	681	8	1	1	0		613	614 634 633
44 45	1	1	1	0	1	43 44	44 99 45 100		401	4	1	1	0		279	280 335 334	682	8	1	1	0		614	615 635 634
46	1	1	1	ŏ	1	45	46 101		402 403	4	1	1 1	0		280 281	281 336 335 282 337 336	683 684	8 8	1	1	0		615 616	616 635 635 617 636 635
47	1	1	i	ő	1	46	47 102		404	4	i	i	ŏ		282	283 338 337	685	8	i	1	Ö		617	618 637 636
48	1	1	1	0	1	47	48 103		405	4	1	1	Ō		284	285 340 339	686	8	1		ō		618	619 638 637
49	1	1	1	0	1	48	49 104	103	406	4	1	1	0	1 :	285	286 341 340	687	8	1	1	0		619	620 639 638
50	1	1	1	0	1	49	50 105		407	4	1	1	0		286	287 342 341	688	8	1	1	0		620	621 640 639
51	1	1	1	0	1	50	51 106		408	5	1	1	0		334	335 390 389	689	8	1		0		621	622 640 640
52	1	1	1	0	1	51	52 107 52 109		409	5	1	1	0		335	336 391 390 337 391 391	690	8	1		0		622	623 641 640
53 54	1	1	1	0	1	52 53	53 108 54 109		410 411	5 5	1	1	0		336 337	338 392 391	691 692	8 8	1		0		623 624	624 642 641 625 643 642
55	1	1	1	ŏ	1	54	55 110		412	5	1	1	ŏ		339	340 394 393	693	8	i		Ö		626	627 645 644
56	2	1	1	0	1	56	57 112		413	5	1	1	Ó		340	341 395 394	694	8	1		ō		627	628 646 645
57	2	1	1	0	1	57	58 113		414	5	1	1	0	1 :	341	342 396 395	695	8	1	1	0		628	629 647 646
58	2	1	1	0	1	58	59 114		415	5	1	1	0		342	343 397 396	696	8	1		0		629	630 647 647
59	2	1	1	0	1	59	60 115		416	5	1	1	0		343	344 398 397	697	8	1		0		630	631 648 647
60 61	2	1	1	0	1	60 61	61 116 62 117		417 418	5	1	1	0		344 345	345 399 398 346 399 399	698	8	1		0		631	632 649 648
62	2	1	1	o	1	62	63 118		419	5 5	1	1	0		346	347 400 399	699 700	8 8	1		0 0		632 633	633 650 649 634 651 650
63	2	i	i	ō	1	63	64 119		420	5	1	1	ŏ		347	348 401 400	701	8	i		Ö		634	635 652 651
64	2	1	1	0	1	64	65 120		421	5	1	1	0		348	349 402 401	702	8	1		Ō		635	636 653 652
65	2	1	1	0	1	65	66 121	120	422	5	1	1	0	1 :	349	350 403 402	703	8	1	1	0		636	637 654 653
66	2	1	1	0	1	66	67 122		423	5	1	1	0		350	351 404 403	704	8	1		0		637	638 655 654
67	2	1	1	0	1	67	68 123		424	5	1	1	0		351	352 405 404	705	8	1		0		638	639 656 655
68	2	1	1	0	1	68	69 124		425	5	1	1	0		352	353 406 405	706	8	1		0		639	640 657 656
69 70	2	1	1	0	1	69 70	70 125 71 126		426 427	5 5	1	1	0		353 354	354 406 406 355 407 406	707 708	8 8	1		0		640	641 657 657
71	2	1	1	0	1	71	72 127		428	5	1	1	0		355	356 408 407	709	8	1		0 0	1 (	642 642	642 658 657 643 659 658
72	2	i	1	ŏ	i	72	73 128		429	5	i	1	ŏ		356	357 409 408	710	9	i		Ö		644	645 661 660
73	2	1	t	ō	1	73	74 129		430	5	1	1	ō	1 :		358 410 409	711	9	1		Ö		645	646 662 661
74	2	1	1	0	1	74	75 130		431	5	1	1	0		358	359 411 410	712	9	1		0	1 (	646	647 662 662
75	2	1	1	0	1	75	76 131	130	432	5	1	1	0	1 :	359	360 412 411	713	9	1	1	0	1 6	547	648 663 662

1 239 240 295 294

1 240 241 296 295

1 524

1 525

525 557 556

526 558 557

1 552

1 822

822 832 580

823 833 832

238	4	1	1	0	1	241	242	297	296	595	6	1	1	0	1	526	527	559	558	943	6	1	1	0	1	823	824	834 8	33
239	4	1	1	0	1	242	243	3 298	297	596	6	1	1	0	1	527	528	560	559	944	6	1	1	0	1	824		835 8	
240	4	1	1	0	- 1	243	244	299	298	597	6	1	1	0	1	528	529	561	560	945	6	1	1	0	1	825	826	835 8	35
241	4	1	1	0	1	244	245	300	299	598	6	1	1	0	1	529	530	562	561	946	6	1	1	0	1	826	827	836 B	35
242	4	1	1	0	1	245	246	301	300	5 <b>99</b>	6	1	1	0	1	530	531	563	562	947	6	1	1	0	1	827	828	837 8	36
243	4	1	1	0	1	246	247	302	301	600	6	1	1	0	1	531	532	564	563	948	6	1	1	0	1	828	829	838 8	37
244	4	1	1	0	1	247	248	303	302	601	6	1	1	0	1	532	533	564	564	949	6	1	1	0	1	829	830	839 8	38
245	4	1	1	0	1	248	249	304	303	602	6	1	1	0	1	533	534	565	564	950	6	1	1	0	1	830	831	840 8	39
246	4	1	1	0	1	249	250	305	304	603	6	1	1	0	1	534	535	566	565	951	7	1	1	0	1	580	832	841 6	04
247	4	1	1	0	1	250	251	306	305	604	6	1	1	0	1	535	536	567	566	952	7	1	1	0	1	832	833	842 8	41
248	4	1	1	0				307		605	6	1	1	0	1	536	537	568	567	953	7	1	1	0	1	833	834	843 8	42
249	4	1	1	0				308		606	6	1	1	0	1	537	538	569	568	954	7	1	1	0	1	834	835	844 8	43
250	4	1	1	0	1	253	254	1 309	308	607	6	1	1	0	1	538	539	569	569	955	7	1	1	0	1	835	836	844 8	44
251	4	1	1	0				310		608	6	1	1	0	1	539	540	570	569	956	7	1	1	0	1	836	837	845 8	44
252	4	1	1	0	1			311		609	6	1	1	0	1	540	541	571	570	957	7	1	1	0	1	837	838	846 8	45
253	4	1	1	0	1			312		610	6	1	1	0	1	541	542	572	571	958	7	1	1	0	1	838	839	847 8	46
254	4	1	1	0				3 313		611	6	1	1	0	1	542		572		959	7	1	1	0	1	839	840	848 8	47
255	4	1	1	0				314		612	6	1	1	0	1	543	544	573	572	960	7	1	1	0	1	604	841	849 6	25
256	4	1	1	0				315		613	6	1	1	0	1	544	545	574	573	961	7	1	1	0	1	841	842	850 8	49
257	4	1	1	0				316		614	6	1	1	0		545		575		962	7	1	1	0	1	842	843	851 8	50
258	4	1	1	0				317		615	6	1	1	0		546		576		963	7	1	1	0	1	843	844	851 8	51
259	4	1	1	0				318	-	616	6	1	1	0		547		577		964	7	1	1	0	1	844	845	852 8	51
260	4	1	1	0				319		617	6	1	1	0		548		578		966	7	1	1	0	1	845	846	853 8	52
261	4	1	1	0				320		618	6	1	1	0		549		578		967	7	1	1	0		846		854 8	
262	4	1	1	0				321		619	6	1	1	0		550		579		968	7	1	1	0		847	848	855 8	54
263	4	1	1	0				322		620	6	1	1	0		551		580		969	8	1	1	0		625	-	856 6 ₋	
264	4	1	1	0				323		621	7	1	1	0		553		582		970	8	1	1	0		849		857 8	
265	4	1	1	0				324		622	7	1	1	0		554		583		971	8	1	1	0		850		858 8	
266	4	1	1	0				325		623	7	1	1	0		555		584		972	8	1	1	0		851		858 8	
267	4	1	1	0				326		624	7	1	Ť	0		556		584		973	8	1	1	Ø		852		859 88	
268	4	1	1	0				327		625	7	1	1	0		557		585		974	8	1	1	0		853		860 85	
269	4	1	1	0				328		626	7	1	1	0		558		586		975	8	1	1	0		854		861 86	
270 271	4	1	1	0		_		329 330		627	7	1	1	0		559		587		976	8	1	1	0		643		862 65	
326	4	1	i	Ö						628	7 7	1	1	0		560		588		977	8	1	1	0		856		863 86	
327	4	1	i	0				' 332 333		629	7		1	0		561		589		978	8	1	1	0		857		863 86	
328	4	1	i	0				334		630	7	1	1	0		562		590		979	8	1	1	0		858		864 86	
333	4	1	i	0				339		631 632	7	1	1	0		563		591		980	8	1	1	0		859		865 86	
337	4	1	i	0				343		633	7	1	1	0		564		592		981	8	1	1	0		860		866 86	
338	4	i	i	0				344		634	7	1	1	-		565		592		982	9	1	1	0		659		867 67	
339	4	1	1	0				345		635	7	1	1	0		566		593		983	9	1	1	0		862		868 86	
340	4	i	i	0				345		636	7	1	1	0		567 568		594 E0E		984	9	1	1	0		863		668 86	
341	4	i	i	0				340 347 :		637	7	1	1	0				595		985	9	1	1	0		864		869 86	
341	4	•	•	U	•	25 I	292	. 34/	340	037	1	1	7	U	1	569	5/0	596	292	986	9	1	1	0	7	865	866	8 <b>70</b> 86	<b>59</b>

CITER PAPER	פעו.ערייי	ED DOF SET= UX	UY	
COMMINITY	SERECT.	AU -126 TOU GE	UI	
NODE	LABEL	זגסס	TMC	+-CLC-2-00006, RW. 0
660	UX	REAL 0.00000000	IMAG	`
660	UY		0.00000000	
	UX	0.00000000	0.00000000	
	UΥ		0.00000000	
		0.00000000	0.00000000	
	ŲΧ	0.00000000	0.00000000	
	UY	0.00000000	0.00000000	
	ÜΧ	0.00000000	0.00000000	
	UY	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UY	0.00000000	0.00000000	
	ÜΧ	0.00000000	0.00000000	
665	UY	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UY	0.00000000	0.00000000	
667	UX	0.00000000	0.00000000	
667	UY	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UY	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
669	UY	0.00000000	0.00000000	
	LABEL	REAL	IMAG	
	UX	0.0000000	0.00000000	
	UY	0.0000000	0.00000000	
	UX	0.0000000	0.00000000	
	UΥ	0.0000000	0.00000000	
	UX	0.00000000	0.00000000	
	UY	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	ŪΧ	0.00000000	0.00000000	
	UX	0.0000000	0.00000000	
	UΧ	0.0000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
855	UX	0.0000000	0.00000000	
				•
	LABEL	REAL	IMAG	
	UX	0.00000000	0.00000000	
	ŬΧ	0.00000000	0.00000000	
	UX	0.00000000	0.00000000	
		0.00000000	0.00000000	
		0.00000000	0.00000000	
		0.00000000	0.00000000	
		0.00000000	0.00000000	
		0.00000000	0.00000000	
		0.00000000	0.00000000	
870	UY	0.00000000	0.00000000	

MATERIAL NUMBER = EX = 3522.5. NUXY = 0.31000 EXY = 0.31000	1 EVALUATED AT TEMPERATURE OF	0.0000	T-CLC- Z-00006 Red-0
MATERIAL NUMBER = EX = 3365.0 NUXY = 0.48600 PRXY = 0.48600	2 EVALUATED AT TEMPERATURE OF	0.0000	
MATERIAL NUMBER = EX = 2253.8 NUXY = 0.48200 PRXY = 0.48200	3 EVALUATED AT TEMPERATURE OF	0.0000	
MATERIAL NUMBER = EX = 5460.0 NUXY = 0.47700 PRXY = 0.47700	4 EVALUATED AT TEMPERATURE OF	0.0000	
MATERIAL NUMBER = EX = 8065.0 NUXY = 0.46600 PRXY = 0.46600	5 EVALUATED AT TEMPERATURE OF	0.0000	
MATERIAL NUMBER = EX = 11188.  NUXY = 0.45100  PRXY = 0.45100	6 EVALUATED AT TEMPERATURE OF	0.0000	
ERIAL NUMBER = EX = 13265. NUXY = 0.43000 PRXY = 0.43000	7 EVALUATED AT TEMPERATURE OF	0.0000	
MATERIAL NUMBER = EX = 18062. NUXY = 0.41600 PRXY = 0.41600	8 EVALUATED AT TEMPERATURE OF	0.0000	
MATERIAL NUMBER = EX = 20965. NUXY = 0.40800 PRXY = 0.40800	9 EVALUATED AT TEMPERATURE OF	0.0000	

## T-CLC-2-00006, Res. 0

Node	Ux	Uy	Node	Ux	Uy	Node	Ux	Uy	Node	Ux	Uy
	2.92E-07			1.37E-03				-6.28E-02		1.20E-03	
2	2.10E-03	-0.18942		1.29E-03		438	6.33E-03	-6.17E-02		8.75E-04	
	4.38E-03			-3.22E-06				-6.00E-02		7.20E-04	1.87E-05
	7.37E-03	-0.189		2.78E-03				-5.76 <b>E-</b> 02		5.30E-04	
	1.02E-02			5.83E-03				-5.50E-02		3.96E-04	
	1.19E-02			9.45E-03				-5.14E-02		-	
	1.51E-02 1.72E-02			1.24E-02 1.57E-02	-0.12054 -0.1186			-4.76E-02 -4.36E-02			
	1.75E-02	-0.1773		2.02E-02				-3.94E-02			
	1.55E-02			2.49E-02				-3.36E-02			
	1.11E-02			3.01E-02				-2.81E-02	665		
12	9.24E-03	-9.51E-02	230	3.46E-02	-9.13E-02	448	1.89E-02	-2.36E-02	666	0	
		-4.91E-02		3.75E-02				-1.94E-02			
		-3.12E-02			-6.45E-02			-1.59E-02			
		-2.13E-02			-5.13E-02			-1.19E-02			
		-1.64E-02 -1.36E-02		3.36E-02 2.97E-02	-3.99E-02			-8.97E-03 -6.74E-03			
		-1.18E-02		2.59E-02				-5.08E-03		0	0
		-1.03E-02			-1.98E-02			-3.75E-03		1.22E-03	_
		-8.28E-03			-1.63E-02			-2.77E-03		1.13E-03	
		-6.55E-03		1.74E-02				-1.98E-03		1.05E-03	
		-5.14E-03	240	1.46E-02	-1.05E-02	458	6.20E-03	-1.37E-03	676	9.78E-04	4.87E-04
		-4.00E-03		1.25E-02				-8.79E-04		9.05E-04	
		-3.08E-03		1.10E-02				-5.22E-04		8.36E-04	
		-2.34E-03		9.73E-03			4.74E-03			7.36E-04	
		-1.74E-03 -1.25E-03		8.72E-03 7.86E-03			4.35E-03 4.00E-03			6.43E-04	
		-1.25E-03 -8.36E-04		7.16E-03			3.69E-03			5.56E-04 4.76E-04	
		-4.98E-04		6.55E-03			3.41E-03			4.01E-04	
		-2.18E-04		6.04E-03			3.16E-03			3.09E-04	
		-4.73E-06		5.59E-03			2.93E-03			2.24E-04	
		1.74E-04	250	5.21E-03	-4.14E-04		2.72E-03		686	1.45E-04	2.83E-04
		3.22E-04		4.90E-03			2.53E-03			7.07E-05	
		4.46E-04		4.62E-03			2.36E-03		688		2.75E-04
		5.47E-04 6.30E-04		4.37E-03			2.20E-03			1.21E-03	
		6.98E-04		4.14E-03 3.93E-03			2.05E-03 1.91E-03			1.12E-03 1.04E-03	
		7.66E-04		3.74E-03			1.79E-03			9.67E-04	
	3.09E-03			3.57E-03			1.67E-03			8.96E-04	
	2.93E-03			3.35E-03			1.56 <b>E-</b> 03			8.28E-04	
41	2.79E-03	8.64E-04	259	3.16E-03	7.38E-04	477	1.45E-03	4.74E-04	695	7.28E-04	4.04E-04
	2.65E-03			2.98E-03			1.36E-03			6.36E-04	
	2.52E-03			2.81E-03			1.27E-03			5.50E-04	
	2.40E-03			2.66E-03			1.18E-03			4.71E-04	
	2.28E-03	8.46E-04		2.52E-03 2.38E-03			-6.57E-07			3.97E-04	
	2.06E-03			2.25E-03			2.57E-03	-3.04E-02		3.05E-04 2.21E-04	
	1.95E-03			2.13E-03				-4.78E-02		1.43E-04	
	1.85E-03			2.02E-03				-4.57E-02		6.99E-05	
50	1.76E-03	7.32E-04	268	1.91E-03	7.08E-04			-4.32E-02			2.69E-04
		7.05E-04		1.80E-03		487	1.27E-02	-4.02E-02	705	1.19E-03	5.35E-04
		6.78E-04		1.70E-03				-3.70E-02		1.11E-03	
	1.49E-03			1.61E-03			1.47E-02			1.03E-03	
	1.41E-03 1.33E-03			1.52E-03 1.44E-03			1.52E-02			9.57E-04	
	4.73E-07			1.35E-03			1.51E-02 1.45E-02			8.86E-04 8.18E-04	
	2.28E-03			1.28E-03			1.36E-02			7.19E-04	
	4.80E-03			-2.48E-06	-0.1101		1.22E-02			6.28E-04	
	8.09E-03			2.86E-03			1.09E-02			5.43E-04	
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	1.35E-02			9.56E-03			8.66E-03			3.92E-04	
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	2.29E-02			1.56E-02			6.92E-03			2.19E-04	
	2.78E-02			1.99E-02 2.39E-02			6.22E-03			1.42E-04	
	3.29E-02 4.00E-02			2.81E-02			5.56E-03 4.95E-03		719 720	6.90E-05	2.58E-04 2.56E-04
	4.00E-02			3.16E-02			4.95E-03			1.18E-03	
	3.89E-02			3.38E-02			4.04E-03			1.10E-03	
	3.22E-02			3.45E-02			3.67E-03			1.02E-03	
	2.80E-02			3.36E-02			3.35E-03			9.45E-04	
	2.45E-02			3.15E-02			3.06E-03			8.74E-04	
	2.16E-02			2.88E-02			2.81E-03			8.07E-04	
	1.92E-02			2.56E-02			2.58E-03			7.09E-04	
	1.71E-02			2.28E-02			2.37E-03			6.19E-04	
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	9.28E-03			1.31E-02			1.71E-03			2.97E-04	
	8.26E-03			1.14E-02			1.58E-03			2.15E-04	

RΩ	7.43E-03	-2.41E-02	200	1.01E-02	E 20E 02	E16	1 465 02	4.40E-04	724	1.39E-04	2.500.04
	6.75E-03										
				9.04E-03				4.14E-04		6.80E-05	
	6.18E-03			8.16E-03				3.88E-04	736		2.44E-04
	5.70E-03			7.40E-03				3.62E-04	737	1.17 <b>E-</b> 03	4.95E-04
	5.30E-03		302	6.77E-03	-1.74E-03	520	1.47E-06	-3.75E-02	738	1.08E-03	4.70E-04
85	4.95E-03	-2.39E-04	303	6.22E-03	-1.24E-03	521	2.18E-03	-3.71E-02	739	1.01E-03	4.45E-04
86	4.66E-03	-2.22E-05	304	5.75E-03	-8 30F-04			-3.64E-02		9.32E-04	
	4.41 E-03			5.35E-03				-3.50E-02		8.62E-04	
	4.19E-03			5.01E-03				-3.35E-02		7.95E-04	
	3.99E-03		307	4.72E-03	-3.35E-05	525	9.30E-03	-3.14E-02	743	6.99E-04	3.54E-04
90	3.80E-03	5.37E-04	308	4.45E-03	1.41E-04	526	1.05E-02	-2.92E-02	744	6.10E-04	3.29E-04
91	3.63E-03	6.21E-04	309	4.21E-03	2.83E-04	527	1.13F-02	-2.66E-02	745	5.27E-04	3 08F-04
92	3.48E-03	6.89E-04		3.99E-03				-2.20E-02		4.51E-04	
	3.29E-03										
				3.79E-03				-1.77E-02		3.80E-04	
	3.11E-03			3.61E-03		530	1.17E-02	-1.38E-02	748	2.92E-04	2.58E-04
95	2.95E-03	8.38E-04	313	3.38E-03	6.49E-04	531	1.07E-02	-1.03E-02	749	2.12E-04	2.46E-04
96	2.80E-03	8.55E-04	314	3.18E-03	7.03E-04	532	9.61E-03	-7.41E-03	750	1.37E-04	2.38F-04
97	2.65E-03	8.62F-04	315	2.99E-03	7.39E-04			-5.39E-03		6.69E-05	
	2.52E-03			2.82E-03				-3.86E-03	752		2.32E-04
	2.39E-03			2.66E-03				-2.67E-03		1.15E-03	
	2.27E-03		318	2.51E-03	7.65E-04	536	6.14E-03	-1.78E-03	754	1.07E-03	4.46E-04
101	2.16E-03	8.18E-04	319	2.37E-03	7.56E-04	537	5.32E-03	-9.90E-04	755	9.91E-04	4.22E-04
102	2.05E-03	7.97E-04	320	2.24E-03	7.42E-04	538	4.66E-03	-4.34E-04	756	9.18E-04	4.00E-04
103	1.94E-03	7.73E-04	321	2.12E-03	7 24F-04			-7.10E-05	_	8.48E-04	
	1.84E-03			2.00E-03				1.67E-04		7.83E-04	
	1.74E-03			1.89E-03				3.15E-04	759	6.88E-04	
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108	1.48E-03	6.42E-04	326	1.59E-03	6.03E-04	544	2.38E-03	4.72E-04	762	4.43E-04	2.72F-04
	1.40E-03			1.50E-03				4.73E-04		3.73E-04	
	1.32E-03										
				1.42E-03				4.61E-04		2.87E-04	
	-1.65E-06			1.34E-03				4.41E-04	765	2.08E-04	2.30E-04
112	2.48E-03	-0.15174	330	1.26E-03	5.04E-04	548	1.60E-03	4.15E-04	766	1.35E-04	2.23E-04
113	5.21E-03	-0.15155	331	-4.15E-06	-9.72E-02	549	1.45E-03	3.89E-04	767	6.58E-05	2.18E-04
114	8.95E-03	-0.15116		3.42E-03				3.61E-04	768		2.17E-04
		-0.15046		6.86E-03				3.34E-04		1.13E-03	
		-0.14992		1.02E-02				3.08E-04		1.05 <b>E-</b> 03	
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118	2.91E-02	-0.14433	336	1.70E-02	-8.81E-02	554	1.74E-03	-2.75E-02	772	9.02E-04	3.78E-04
119	3.76E-02	-0.13797	337	1.97E-02	-8.41E-02	555	3.43E-03	-2.68E-02	773	8.34E-04	3.58E-04
	4.77E-02			2.24E-02				-2.58E-02		7.69E-04	
	5.59E-02			2.47E-02				-2.47E-02			
									775		
	5.80E-02			2.65E-02				-2.28E-02		5.89Ë-04	
	5.34E-02		341	2.75E-02	-6.03E-02			-2.09E-02	777	5.09E-04	2.71E-04
124	4.44E-02	-3.40E-02	342	2.80E-02	-5.36E-02	560	9.06E-03	-1.79E-02	778	4.35E-04	2.55E-04
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126	2.90E-02	-1 88E-02		2.65E-02				-1.20E-02		2.82E-04	
	2.42E-02			2.49E-02				-8.67E-03			
									781		
	2.07E-02			2.33E-02				-6.17E-03		1.32E-04	
	1.81E-02			2.12E-02				-4.20E-03	783	6.45E-05	2.04E-04
130	1.50E-02	-9.21E-03	348	1.93E-02	-1.84E-02	566	6.55E-03	-2.86E-03	784	0	2.02E-04
131	1.28E-02	-7.25E-03	349	1.76E-02	-1.54E-02	567	5.75E-03	-1.83E-03	785	1.11E-03	4.09E-04
132	1.11E-02	-5.66E-03	350	1.52E-02	-1.18E-02	568	4.87E-03	-8.61E-04	786	1.01E-03	3.81E-04
133	9.70E-03	-4 39E-03	351	1.32E-02	-9 07E-03			-2.96E-04		9.13E-04	
	8.61E-03			1.16E-02							
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	7.72E-03			1.03E-02			3.08E-03			7.48E-04	
	7.00E-03			9.23E-03			2.70E-03			6.33E-04	
137	6.39E-03	-1.39E-03	355	8.31E-03	-3.30E-03	573	2.39E-03	3.75E-04	791	5.29E-04	2.52E-04
138	5.88E-03	-9.53E-04	356	7.57E-03	-2.52E-03	574	2.11E-03	3.89E-04	792	4.36E-04	2.31E-04
139	5.45E-03	-5.92E-04	357	6.91E-03	-1.88E-03	575	1.87E-03	3.81E-04		3.51E-04	
	5.07E-03			6.35E-03			1.65E-03			2.74E-04	
	4.77E-03			5.87E-03			1.46E-03				
										1.98E-04	
	4.51E-03			5.44E-03			1.30E-03			1.28E-04	
	4.27E-03			5.10E-03			1.15 <b>E-0</b> 3		797	6.26 <b>E-</b> 05	1.82E-04
144	4.05E-03	4.04E-04	362	4.80E-03	-1.02 <b>E-0</b> 4	580	1.02E-03	2.54E-04	798	0	1.81E-04
145	3.86E-03	5.10E-04	363	4.52E-03	7.68E-05	581	1.85 <b>E-0</b> 6	-1.73E-02		1.05E-03	
	3.68E-03			4.26E-03			1.47E-03			9.30E-04	
	3.51E-03			4.04E-03			2.83E-03				
										8.22E-04	
	3.31E-03			3.83E-03			4.06E-03			7.23E-04	
	3.13E-03			3.64E-03		585	5.17E-03	-1.44E-02	803	5.95E-04	2.46E-04
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151	2.80E-03	8.35E-04	369	3.19E-03	6.66E-04		6.42E-03			3.82E-04	
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	2.52E-03			2.82E-03			7.00E-03				
										2.11E-04	
	2.39E-03			2.66E-03			6.85E-03			1.36E-04	
	2.26E-03		373	2.51E-03	7.32E-04	591	6.32E-03	-4.09E-03	809	6.61 E-05	1.61E-04
156	2.15E-03	7.97E-04	374	2.36⊑-03	7.25E-04	592	5.61E-03	-2.54E-03	810	0	1.60E-04
157	2.04E-03	7.75E-04		2.23E-03			5.01E-03			9.74E-04	
	1.93E-03			2.10E-03			4.32E-03			8.25E-04	
	1.83E-03			1.99E-03			3.73E-03			6.96E-04	
		07	517		J J	-55	J., JE-QJ	University	010	J.JUL-04	

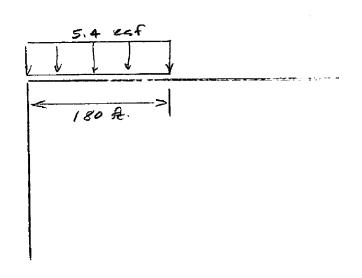
## T-CLC-2-0006, lev e 0 160 173F-03 70NF-04 378 188F-03 6.50E-04 596 3.22E-03 -7.83E-05 814 5.71E-04 2.18E-04

160 1705 00 7.005 04	070 4 00F 00 0 F0F 04	FOC 0.00F-00 7-00F-05	014 571504 010504
160 1.73E-03 7.00E-04	378 1.88E-03 6.50E-04	596 3.22E-03 -7.83E-05	814 5.71E-04 2.18E-04
161 1.64E-03 6.74E-04	379 1.77E-03 6.26E-04	597 2.72E-03 1.23E-04	815 4.63E-04 1.94E-04
162 1.55E-03 6.47E-04	380 1.67E-03 6.01E-04	598 2.32E-03 2.17E-04	816 3.66E-04 1.75E-04
163 1.46E-03 6.21E-04	381 1.58E-03 5.76E-04	599 1.97E-03 2.59E-04	817 2.80E-04 1.61E-04
164 1.38E-03 5.95E-04	382 1.49E-03 5.50E-04	600 1.67E-03 2.63E-04	818 2.02E-04 1.51E-04
165 1.30E-03 5.71E-04	383 1.40E-03 5.26E-04	601 1.44E-03 2.49E-04	819 1.30E-04 1.45E-04
166 -1.36E-06 -0.13765	384 1.32E-03 5.02E-04	602 1.23E-03 2.25E-04	820 6.34E-05 1.41E-04
167 2.50E-03 -0.13751	385 1.24E-03 4.79E-04	603 1.05E-03 2.01E-04	821 0 1.39E-04
168 5.29E-03 -0.13725	386 -6.80E-07 -7.91E-02	604 8.97E-04 1.76E-04	822 8.96E-04 2.62E-04
169 9.08E-03 -0.13651	387 3.48E-03 -7.86E-02	605 7.14E-08 -1.03E-02	823 7.35E-04 2.24E-04
170 1.31E-02 -0.13543	388 6.90E-03 -7.75E-02	606 9.61E-04 -1.01E-02	824 5.97E-04 1.94E-04
171 1.76E-02 -0.1336	389 1.03E-02 -7.57E-02	607 1.91E-03 -9.76E-03	825 4.79E-04 1.68E-04
172 2.25E-02 -0.13126	390 1.34E-02 -7.32E-02	608 2.68E-03 -9.23E-03	826 3.77E-04 1.48E-04
173 3.01E-02 -0.12642	391 1.61E-02 -6.98E-02	609 3.28E-03 -8.48E-03	827 2.86E-04 1.35E-04
174 3.90E-02 -0.11844	392 1.89E-02 -6.59E-02	610 3.91E-03 -7.67E-03	828 2.06E-04 1.24E-04
175 4.75E-02 -0.10625	393 2.09E-02 -6.15E-02	611 4.29E-03 -6.79E-03	829 1.32E-04 1.18E-04
176 5.36E-02 -8.98E-02	394 2.25E-02 -5.66E-02	612 4.54E-03 -5.88E-03	830 6.40E-05 1.14E-04
177 5.51E-02 -7.07E-02	395 2.37E-02 -5.14E-02	613 4.73E-03 -4.11E-03	831 0 1.13E-04
178 5.13E-02 -5.27E-02	396 2.43E-02 -4.62E-02	614 4.52E-03 -2.66E-03	832 8.19E-04 2.11E-04
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183 2.09E-02 -1.50E-02	401 1.92E-02 -1.92E-02	619 2.24E-03 3.45E-05	837 2.14E-04 1.00E-04
184 1.81E-02 -1.27E-02	402 1.75E-02 -1.59E-02	620 1.86E-03 1.21E-04	838 1.36E-04 9.32E-05
185 1.50E-02 -9.87E-03	403 1.52E-02 -1.20E-02	621 1.54E-03 1.58E-04	839 6.59E-05 8.92E-05
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187 1.11E-02 -6.01E-03	405 1.15E-02 -7.01E-03	623 1.07E-03 1.41E-04	841 6.93E-04 1.41E-04
188 9.80E-03 -4.66E-03	406 1.02E-02 -5.33E-03	624 8.89E-04 1.26E-04	842 5.32E-04 1.13E-04
189 8.72E-03 -3.60E-03	407 9.09E-03 -4.09E-03	625 7.38E-04 1.05E-04	843 4.01E-04 9.41E-05
190 7.84E-03 -2.75E-03	408 8.12E-03 -3.09E-03	626 2.41E-06 -6.11E-03	844 3.00E-04 7.59E-05
191 7.11E-03 -2.06E-03	409 7.34E-03 -2.29E-03	627 7.66E-04 -6.01E-03	845 2.10E-04 6.66E-05
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193 5.98E-03 -1.04E-03	411 6.09E-03 -1,14E-03	629 2,19E-03 -5.28E-03	847 6.36E-05 5.61E-05
194 5.54E-03 -6.63E-04	412 5.60E-03 -7.30E-04	630 2.60E-03 -4.92E-03	848 0 5.50E-05
195 5.15E-03 -3.55E-04	413 5.23E-03 -4.51E-04	631 3.02E-03 -4.34E-03	849 5.41E-04 8.11E-05
196 4.84E-03 -1.19E-04	414 4.89E-03 -2.04E-04	632 3.32E-03 -3.74E-03	850 3.95E-04 6.38E-05
197 4.57E-03 7.50E-05	415 4.54E-03 2.23E-05	633 3.56E-03 -2.50E-03	851 2.82E-04 4.81E-05
198 4.32E-03 2.37E-04	416 4.22E-03 2.02E-04	634 3.45E-03 -1.54E-03	852 1.97E-04 3.95E-05
199 4.10E-03 3.70E-04	417 3.94E-03 3.45E-04	635 3.09E-03 -8.92E-04	853 1,23E-04 3,34E-05
200 3.90E-03 4.79E-04	418 3.68E-03 4.52E-04	636 2.63E-03 -4.27E-04	854 5.85E-05 3.00E-05
201 3.71E-03 5.68E-04	419 3.42E-03 5.44E-04	637 2.20E-03 -1.68E-04	855 0 2.87E-05
202 3.54E-03 6.39E-04	420 3.19E-03 6.07E-04	638 1.77E-03 -1.24E-05	856 4.01E-04 3.58E-05
203 3.33E-03 7.12E-04	421 2.98E-03 6.47E-04	639 1.43E-03 5.56E-05	857 2.70E-04 3.07E-05
204 3.14E-03 7.62E-04	422 2.78E-03 6.70E-04	640 1.13E-03 6.80E-05	858 1.86E-04 1.78E-05
205 2,97E-03 7,95E-04	423 2.60E-03 6.79E-04	641 9.23E-04 7.76E-05	859 1.14E-04 1.55E-05
206 2.81E-03 8.14E-04	424 2.44E-03 6.78E-04	642 7.35E-04 6.27E-05	860 5.36E-05 1.15E-05
207 2.66E-03 8.20E-04	425 2.29E-03 6.68E-04	643 5.84E-04 5.04E-05	861 0 1.02E-05
208 2.52E-03 8.18E-04	426 2.15E-03 6.54E-04	644 -5.80E-07 -3.05E-03	862 2.48E-04 7.41E-06
209 2.38E-03 8.09E-04	427 2.02E-03 6.35E-04	645 6.32E-04 -2.98E-03	863 1.47E-04 7.08E-06
210 2.26E-03 7.94E-04	428 1.89E-03 6.13E-04	646 1.23E-03 -2.89E-03	864 9.96E-05 5.43E-06
211 2.14E-03 7.75E-04	429 1.78E-03 5.89E-04	647 1.45E-03 -2.66E-03	865 4.23E-05 -1.54E-06
212 2.03E-03 7.54E-04	430 1.67E-03 5.64E-04	648 1.89E-03 -2.33E-03	866 0 8.19E-08
213 1.92E-03 7.30E-04	431 1.57E-03 5.38E-04	649 2.19E-03 -1.98E-03	867 0 0
214 1.82E-03 7.05E-04	432 1.47E-03 5.13E-04	650 2.42E-03 -1.40E-03	868 0 0
215 1.72E-03 6.79E-04	433 1.38E-03 4.88E-04	651 2.33E-03 -8.73E-04	869 0 0
216 1.62E-03 6.52E-04	434 1.29E-03 4.63E-04	652 2.15E-03 -5.75E-04	870 0 0
217 1.54E-03 6.26E-04	435 1,21E-03 4,40E-04	653 1.88E-03 -3.08E-04	
218 1.45E-03 6.00E-04	436 -8.30E-07 -6.33E-02	654 1.57E-03 -1.53E-04	
210 1.40E-00 0.00E-04	400 TO.OULTO/ TO.OOETUZ	004 1.07E-00 -1.03E-04	

MAXIMUM ABSOLUTE VALUES NODE 122 1 VALUE -5.80E-02 0.18945 Calculation Sheet

	Re	Project	se C	محب				Calculation N	io. L-2-000	<i>م</i> اه
Rev	ona •	Subject riginator	Date	Checker	Date	Rev	Originator	Date	Sheet No Checker	508 Date
0	w	^	7 A/03	7	71003					

CASE PO 2D Amsymmetric Creep
DWPF Loads file sou 70



STEP 1 Ramp to 1.0 less over 400 days STEP 2 Ramp to 5.4 less over 1500 days STEP 3 Creep to 6500 days

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509
```

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T-CLC-L-00006, Rev. 0
*SET, c1, 0.0015 } adjust parameters
*SET, e, -1.
MPTEMP, , , , , , ,
MPTEMP, 1, 0
MPDE, EX, 1
MPDE, PRXY, 1
MPDATA, EX, 1, , 14090/k
MPDATA, PRXY, 1, , 0.31
MPTEMP, , , , , , ,
MPTEMP, 1, 0
MPDE, EX, 2
MPDE, PRXY, 2
MPDATA, EX, 2, , 13460/k
MPDATA, PRXY, 2, , 0.486
MPTEMP, , , , , , ,
MPTEMP, 1, 0
MPDE, EX, 3
MPDE, PRXY, 3
MPDATA, EX, 3,, 9015/k
MPDATA, PRXY, 3,, 0.482
MPTEMP,,,,,,,
MPTEMP, 1, 0
MPDE, EX, 4
MPDE, PRXY, 4
MPDATA, EX, 4,, 21840/k
MPDATA, PRXY, 4,, 0.477
MPTEMP, , , , , , ,
MPTEMP, 1, 0
MPDE, EX, 5
MPDE, PRXY, 5
MPDATA, EX, 5,, 32260/k
MPDATA, PRXY, 5,, 0.466
MPTEMP,,,,,,,
MPTEMP, 1, 0
MPDE, EX, 6
MPDE, PRXY, 6
MPDATA, EX, 6, , 44750/k
MPDATA, PRXY, 6,, 0.451
MPTEMP,,,,,,,
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MPDE, EX, 7
MPDE, PRXY, 7
MPDATA, EX, 7, , 53060/k
MPDATA, PRXY, 7,, 0.43
MPTEMP, , , , , , ,
MPTEMP, 1, 0
MPDE, EX, 8
MPDE, PRXY, 8
MPDATA, EX, 8,, 72250/k
MPDATA, PRXY, 8,, 0.416
MPTEMP,,,,,,,,
MPTEMP, 1, 0
MPDE, EX, 9
MPDE, PRXY, 9
MPDATA, EX, 9,, 83860/k
MPDATA, PRXY, 9,, 0.408
TBDE, CREE, 1,,
TB, CREE, 1, 1, 4, 2
TBTEMP, 0
TBDATA,,c1/20,1,e,,,
TBDE, CREE, 2,,,
TB, CREE, 2, 1, 4, 2
TBTEMP, 0
TBDATA,,c1/20,1,e,0,,
TBDE, CREE, 3,,,
TB, CREE, 3, 1, 4, 2
TBTEMP, 0
TBDATA,,c1/20,1,e,0,,
TBDE, CREE, 4,,,
TB, CREE, 4, 1, 4, 2
TBTEMP, 0
TBDATA,,c1/25,1,e,0,,
```

TBDE, CREE, 5,,,

Model 70

Setting elastic à croop proportios

T-CLC-L-00006, Rev. 0

TB,CREE,5,1,4,2
TBTEMP,0
TBDATA,,c1/40,1,e,0,,
TBDE,CREE,6,,,
TB,CREE,6,1,4,2
TBTEMP,0
TBDATA,,c1/60,1,e,0,,
TBDE,CREE,7,,,
TB,CREE,7,1,4,2
TBTEMP,0
TBDATA,,c1/100,1,e,0,,
TBDE,CREE,8,,,
TB,CREE,8,1,4,2
TBTEMP,0
TBDATA,,c1/100,1,e,0,,
TBDE,CREE,8,,,
TB,CREE,8,1,4,2
TBTEMP,0
TBDATA,,c1/100,1,e,0,,
TBDE,CREE,9,,,

TB, CREE, 9, 1, 4, 2 TBTEMP, 0

TBDATA,,c1/200,1,e,0,,

ssv7p0loads.txt

ANTYPE, 0
OUTRES, ALL, ALL
RATE, 1
SFEDELE, ALL, ALL
NLGEOM, 1
NSUBST, 4, 10, 4
TIME, 400
FLST, 2, 11, 2, ORDE, 2
FITEM, 2, 1
FITEM, 2, -11
/GO
!*
SFE, P51X, 1, PRES, , 1.0, , ,
/STATUS, SOLU
SOLVE
NSUBST, 5, 10, 4
TIME, 1500
FLST, 2, 11, 2, ORDE, 2
FITEM, 2, 1
FITEM, 2, -11
/GO
!*
SFE, P51X, 1, PRES, , 5.4, , ,
/STATUS, SOLU
SOLVE
NSUBST, 8, 20, 8
TIME, 6500
/STATUS, SOLU
SOLVE
NSUBST, 8, 20, 8
TIME, 6500
/STATUS, SOLU
SOLVE

## Creep Model Displacement Output Per. 0

		,			F .		'		4 - mgr (	•	
Node	Ux	Uу	Node	Ux	Uy	Node	Ux	Uy	Node	Ux	Uy
1	-6.21E-08	-0.27379	219	2.54E-03	1.21E-03	437	5.71E-03	-8.88E-02	655	1.57E-03	6.47E-05
2	3.33E-03	-0.27365	220	2.39E-03	1.16E-03	438	1.13E-02	-8.72E-02	656	1.15E-03	1.17E-04
3	6.93E-03	-0.27314		-4.29E-06		439	1.65E-02	-8.45E-02	657 658 659 660	9.59E-04	8.22E-05
	1.17E-02			5.80E-03		440	2 19E-02	-8 09E-02	658	7.02E-04	5.50E-05
	1.63E-02			1.21E-02		441	2.545.02	-7.79E-02	650	5.33E-04	4.06E-05
						441	2.045-02	7.735-02	000	0.00=04	4.00E-00
_	1.90E-02			1.96E-02					000	Ų	0
	2.47E-02			2.55E-02				-6.60 <b>E</b> -02	661		
8	2.96E-02	-0.25592	226	3.22E-02	-0.18323	444	3.44E-02	-6.01 <b>E-</b> 02	662 663	0	
9	3.34E-02	-0.24456	227	4.08E-02	-0.17713	445	3.58E-02	-5.39E-02	663	0	0
10	3.51E-02	-0 22517		4.98E-02		446	3.64E-02	-4.53E-02		0	0
	3.62E-02			5.95E-02				-3.71E-02	665	ō	
								-3.05E-02	666		
	3.81E-02			6.76E-02							
	3.83E-02			7.30E-02				-2.45E-02			0
14	3.90E-02	-4.71E-02	232	7.44E-02	-9.58E-02	450	2.96E-02	-1.93E-02	668	0	
15	3.91E-02	-3.15E-02	233	7.21E-02	-7.47E-02	451	2.62E-02	-1.38E-02	669	0	0
16	3.77E-02	-2.27E-02	234	6.70E-02	-5.67E-02	452	2.29E-02	-9.67E-03 -6.72E-03 -4.65E-03	670	0	0
17	3.57E-02	-1 67F-02		6.02E-02		453	2.02E-02	-6.72E-03	671	0	0
	3.35E-02			5.35E-02		454	1.77E-02	-4.65E-03	672		Ö
						455	1.776-02	0.000-00	672	2.26E-03	
	3.12E-02			4.71E-02		455	1.59E-02	-2.83E-03	0/3		
	2.77E-02			4.19E-02		456	1.42E-02	-2.93E-03 -1.84E-03	6/4	2.10E-03	
21	2.47E-02	-4.07E-03			-1.49E-02	457	1 27F-D2	-9 DBH-D4	675	1.94E-03	
22	2.21E-02	-2.38E-03	240	3.17E-02	-1.01E-02	458	1.15E-02	-2.46E-04 2.82E-04	676	1.80E-03	1.04E-03
23	1.99E-02	-1.14E-03	241	2.73E-02	-6.90E-03	459	1.05E-02	2.82E-04	677	1.66E-03	9.87E-04
	1.80E-02				-4.62E-03	460	9.65E-03	6.48E-04	678	1.53E-03	9.42E-04
	1.64E-02			2.12E-02		461	8.77E-03	6.48E-04 9.53E-04	679	1.34E-03	
	1.51E-02				-1.74E-03			1.20E-03		1.17E-03	
	1.39Ë-02			1.71E-02		463	7.40E-03	1.34E-03	681	1.01E-03	
28	1.28E-02	1.72E-03	246	1.56E-02	-8.85E-05	464	6.81E-03	1.45E-03	682	8.63E-04	
29	1.19E-02	1.95E-03	247	1.42E-02	4.48E-04			1.51E-03	683	7.26E-04	6.95E-04
	1.11E-02		248	1.30E-02	8.89F-04	466	5.81E-03	1.53E-03		5.58E-04	
	1.04E-02			1.20E-02				4 505 00	205	4.04E-04	
						407	4.000.00	1.53E-03 1.51E-03 1.47E-03	600		
	9.77E-03			1.11E-02		466	4.96E-U3	1.512-03	000	2.62E-04	
	9.21E-03			1.04E-02		<b>46</b> 9	4.64E-03	1.47E-03	687	1.28E-04	
34	8.70E-03	2.42E-03	252	9.73E-03	1.79E-03						5.95E-04
35	8.23E-03	2.43E-03	253	9.14E-03	1.89E-03	471	4.01E-03	1.36E-03 1.30E-03	689	2.24E-03	1.17E-03
36	7.80E-03	2.44E-03	254	8.61E-03	1.97E-03	472	3.73E-03	1.30E-03	690	2.07E-03	1.11E-03
	7.41E-03			8.12E-03		473	3.48E-03	1,24E-03	691	1.92E-03	1.05E-03
	6.93E-03			7.68E-03				1.18E-03		1.78E-03	
								1.12E-03		1.64E-03	
	6.49E-03			7.27E-03							
	6.09E-03			6.77E-03				1.06E-03		1.51E-03	
41	5.72E-03	2.26E-03		6.32E-03				1.00E-03		1.33E-03	
42	5.38E-03	2.19E-03	260	5.92E-03	2.03E-03	478	2.44E-03	9.47E-04	696	1.16E-03	7.94E-04
43	5.06E-03	2.12E-03	261	5.55E-03	1.99E-03	479	2.27E-03	8.96E-04	697	9.98E-04	7.46E-04
44	4.77E-03	2.05E-03	262	5.20E-03	1.94E-03	480	2.12E-03	8.46E-04	698	8.52E-04	7.05E-04
	4.50E-03			4.89E-03		481	-6.05E-07	-6.98E-02	699	7.17E-04	
	4.24E-03			4.59E-03				-6.92E-02		5.52E-04	
			207	4.00E 00	1.01E-00	400	0.045.00	0.775.00	704	3.99E-04	
		1.82E-03	203	4.32E-03 4.07E-03	1.73E-03	403	4.005.00	0.772-02	701		
-		1.75E-03	266	4.07E-03	1.68E-03	484	1.29E-02	-6.55E-02 -6.23E-02 -5.86E-02	702	2.58E-04	
		1.67E-03	267	3.83E-03	1.61E-03	485	1.59E-02	-6.23E-02	703	1.26E-04	
50	3.35E-03	1.60E-03	268	3.60E-03	1.54E-03	486	1.97E-02	-5.86E-02	704	0	5.74E-04
51	3.16E-03	1.53E-03	269	3.39E-03	1.61E-03 1.54E-03 1.47E-03	487	2.21E-02	-5.44E-02	705	2.21E-03	1.13E-03
	2.98E-03			3.19E-03			2.42E-02	-4.96E-02	706	2.05E-03	1.07E-03
	2.80E-03			3.01E-03				-4.48E-02		1.89E-03	
								-3.71E-02		1.75E-03	
	2.64E-03			2.83E-03							
	2.48E-03				1.23E-03			-3.00E-02		1.62E-03	
56	7.91E-07	-0.2508	274	2.50E-03	1.17E-03			-2.40E-02		1.49E-03	
57	3.93E-03	-0.2506	275	2.35E-03	1.12E-03	493	2.40E-02	-1.86E-02	711	1.31E-03	8.15E-04
	8.31E-03		276	-4.86E-06	-0.168	494	2.17E-02	-1.33E-02	712	1.14E-03	7.62E-04
	1.40E-02			5.68≒-03				-9.36E-03		9.84E-04	
	1.98E-02			1.18E-02				-6.41E-03		8.40E-04	
				1.89E-02				-4.36E-03		7.07E-04	
	2.33E-02										
	3.15E-02			2.47E-02				-2.73E-03		5.44E-04	
63	3.98E-02	-0.23412	281	3.06E-02	-0.15832	499	1.23E-02	-1.61E-03		3.94E-04	
64	4.86E-02	-0.22257	282	3.87E-02	-0.15216	500	1.11E-02	-7.41E-04		2.55E-04	
	5.82E-02			4.61E-02		501	9.91E-03	-9.07E-06	719	1.24E-04	5.53E-04
	7.14E-02			5.39E-02				5.53E-04	720		5.50E-04
	7.84E-02			6.03E-02				8.76E-04		2.18E-03	
	7.02E-02			6.43E-02				1.12E-03		2.02E-03	
	5.83E-02			6.58E-02				1.27E-03		1.87E-03	
70	5.11 <b>E</b> -02	-3.17E-02		6.44E-02				1.35E-03		1.73E-03	
71	4.55E-02	-2.27E-02	289	6.10E-02	-5.57E-02	507	5.49E-03	1.38E-03	725	1.59E-03	8.83E-04
	4.09E-02		290	5.65E-02	-4.40E-02	508	5.02E-03	1.38E-03	726	1.47E-03	8.41E-04
	3.71E-02			5.09E-02				1.35E-03		1.29E-03	
	3.38E-02			4.60E-02				1.31E-03		1.12E-03	
				4.12E-02				1.25E-03		9.69E-04	
	2.94E-02							1.19E-03		8.27E-04	
	2.58E-02			3.72E-02							
	2.29E-02			3.17E-02				1.13E-03		6.96E-04	
		-1.47E-03			-8.01E-03			1.06E-03		5.35E-04	
79	1.85E-02	-5.00Ë-04	297	2.40E-02	-5.45E-03	515	2.81 E-03	9.98E-04	733	3.88E-04	5.57E-04

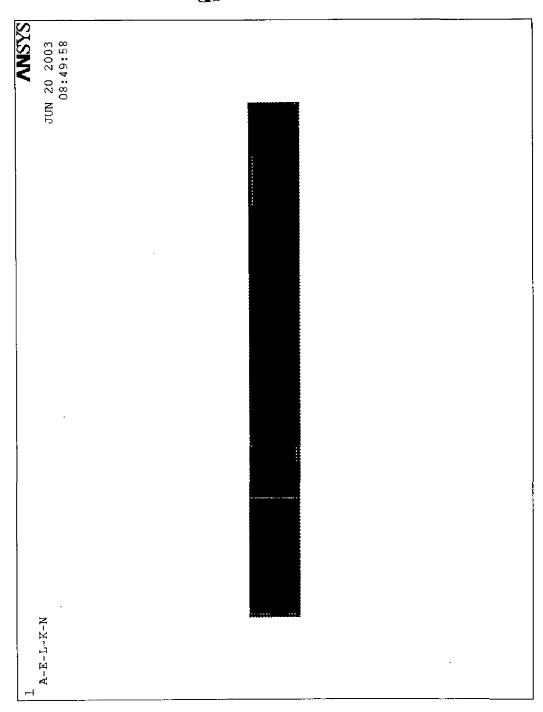
	, –		'						
80	1.68E-02	2.36E-04	298	2.13E-02 -3.64E-03	516	2.60E-03 9.34E-04	734	2.51E-04	5.39E-04
81	1.53E-02	7.94E-04	299	1.90E-02 -2.32E-03	517	2.39E-03 8.76E-04	735	1.22E-04	5.29E-04
	1.41E-02			1.72E-02 -1.27E-03	518	2.20E-03 8.20E-04	736	0	5.26E-04
				1.56E-02 -5.12E-04		2.03E-03 7.66E-04		2.14E-03	
	1.29E-02								
	1.20E-02			1.42E-02 1.17E-04		1.27E-06 -4.90E-02		1.99E-03	
85	1.11E-02	1.99E-03	303	1.30E-02 5.75E-04	521	3.66E-03 -4.85E-02		1.84E-03	
86	1.04E-02	2.12E-03	304	1.20E-02 9.57E-04	522	7.16E-03 -4.75E-02	740	1.70E-03	8.91E-04
87	9.80E-03	2.21E-03	305	1.11E-02 1.24E-03	523	1.04E-02 -4.57E-02	741	1.57E-03	8.48E-04
	9.23E-03			1.03E-02 1.45E-03		1.26E-02 -4.36E-02		1.45E-03	
								1.27E-03	
	8.71E-03			9.68E-03 1.60E-03		1.54E-02 -4.06E-02			
90	8.23E-03	2.35E-03		9.09E-03 1.73E-03		1.74E-02 -3.76E-02		1.10E-03	
91	7.80E-03	2.36E-03	309	8.55E-03 1.81E-03	527	1.88E-02 -3.41E-02	745	9.52E-04	6.56E-04
92	7.39E-03	2.36E-03	310	8.06E-03 1.88E-03	528	2.03E-02 -2.78E-02	746	8.13E-04	6.20E-04
	6.90E-03			7.62E-03 1.93E-03	529	2.04E-02 -2.19E-02	747	6.84E-04	5.89E-04
	6.46E-03			7.21E-03 1.96E-03	-	1.95E-02 -1.66E-02		5.26E-04	
-								3.81E-04	
	6.06E-03			6.71E-03 1.97E-03		1.79E-02 -1.19E-02			
	5.69E-03			6.26E-03 1.96E-03		1.60E-02 -8.09E-03		2.47E-04	
97	5.34E-03	2.14E-03	315	5.85E-03 1.94E-03	533	1.46E-02 -5.53E-03	751	1.20E-04	5.06E-04
98	5.03E-03	2.07E-03	316	5.49E-03 1.90E-03	534	1.30E-02 -3.62E-03	752	0	5.03E-04
	4.73E-03			5.14E-03 1.85E-03	535	1.15E-02 -2.13E-03	753	2.10E-03	9.93E-04
	4.46E-03			4.83E-03 1.79E-03		1.03E-02 -1.08E-03		1.95E-03	
							_	1.80E-03	
	4.20E-03			4.53E-03 1.73E-03		9.00E-03 -1.73E-04			
102	3.96E-03	1.77E-03	320	4.26E-03 1.67E-03		7.92E-03 4.55E-04		1.67E-03	
103	3.73E-03	1.70E-03	321	4.01E-03 1.61E-03	539	7.06E-03 8.18E-04		1.54E-03	
104	3.52E-03	1.63E-03	322	3.77E-03 1.54E-03	540	6.25E-03 1.02E-03	758	1.42E-03	7.65E-04
105	3.32E-03	1.56E-03	323	3.55E-03 1.47E-03	541	5.63E-03 1.14E-03	759	1.24E-03	7.10E-04
	3.12E-03			3.34E-03 1.41E-03		5.07E-03 1.18E-03		1.08E-03	
								9.33E-04	
	2.94E-03			3.14E-03 1.35E-03		4.60E-03 1.17E-03			
108	2.77E-03	1.36E-03	326	2.96E-03 1.28E-03	544	4.16E-03 1.14E-03		7.97E-04	
109	2.61E-03	1.30E-03	327	2.78E-03 1.23E-03	545	3.77E-03 1.09E-03	763	6.70E-04	5.56E-04
110	2.45E-03	1.25E-03	328	2.62E-03 1.17E-03	546	3.41E-03 1.03E-03	7 <del>6</del> 4	5.15E-04	5.25E-04
	-2.56E-06			2.46E-03 1.11E-03		3.10E-03 9.63E-04	785	3.73E-04	5 02F-04
						2.81E-03 8.93E-04		2.42E-04	
	4.55E-03			2.31E-03 1.06E-03					
	9.55E-03			-6.50E-06 -0.14612		2.55E-03 8.29E-04		1.18E-04	
114	1.63E-02	-0.23125	332	6.48E-03 -0.14537		2.32E-03 7.68E-04	768		4.74E-04
115	2.31E-02	-0.22924	333	1.30E-02 -0.14361	551	2.10E-03 7.08E-04	769	2.06E-03	9.42E-04
116	2.76E-02	-0.22763	334	1.92E-02 -0.14078	552	1,90E-03 6.53E-04	770	1.91E-03	8.92E-04
	3.77E-02			2.53E-02 -0.13645		9.00E-07 -3.52E-02	771	1.76E-03	8.45E-04
	4.90E-02			3.18E-02 -0.13143		2,50E-03 -3.48E-02		1.63E-03	
								1.50E-03	
	6.11E-02			3.68E-02 -0.12515		4.98E-03 -3.39E-02			
120	7.50E-02	-0.18239		4.16E-02 -0.11692		7.28E-03 -3.25E-02		1.39E-03	
121	8.60E-02	-0.15114	339	4.59E-02 -0.10772	557	8.81E-03 -3.11E-02	775	1.21E-03	6.71E-04
122	8.90E-02	-0.11336	340	4.91E-02 -9.80E-02	558	1.05E-02 -2.85E-02	776	1.06E-03	6.25E-04
	8.36E-02			5.12E-02 -8.77E-02	559	1.20E-02 -2.60E-02	777	9.12E-04	5.85E-04
	7.24E-02			5.21E-02 -7.73E-02		1.33E-02 -2.21E-02		7.78E-04	
								6.55E-04	
-	6.09E-02			5.19E-02 -6.49E-02		1.39E-02 -1.80E-02			
126	5.24E-02	-2.53E-02	344	5.01E-02 -5.34E-02	562	1.39E-02 -1.43E-02		5.03E-04	
127	4.56E-02	-1.90E-02	345	4.75E-02 -4.31E-02	563	1.34E-02 -9.89E-03	781	3.65E-04	4.73E-04
128	4.04E-02	-1.47E-02	346	4.49E-02 -3.52E-02	564	1.23E-02 -6.67E-03	782	2.36E-04	4.58E-04
129	3.61E-02	-1.16E-02	347	4.13E-02 -2.83E-02	565	1,12E-02 -4.13E-03	783	1.15E-04	4.49E-04
	3.08E-02			3.80E-02 -2.27E-02		1.02E-02 -2.48E-03	784		4.46E-04
				3.49E-02 -1.82E-02		9.09E-03 -1.24E-03		1.99E-03	
	2.67E-02								
	2.35E-02			3.05E-02 -1.28E-02		7.85E-03 -9.83E-05		1.81E-03	
		-1.93E-03		2.66E-02 -8.98E-03		6.74E-03 4.81E-04		1.64E-03	
134	1.88E-02	-8.81E-04		2.36E-02 -6.25E-03		5.81E-03 8.33E-04		1.48E-03	
135	1.70E-02	-9.35E-05	353	2.09E-02 -4.29E-03	571	5.15E-03 9.44E-04		1.34E-03	
	1.55E-02		354	1.88E-02 -2.87E-03	572	4.55E-03 9.94E-04	790	1.13E-03	5.98E-04
	1.42E-02			1.69E-02 -1.75E-03		4.05E-03 9.80E-04		9.43E-04	
	1.30E-02			1.54E-02 -9.05E-04		3.59E-03 9.35E-04		7.75E-04	
								6.24E-04	
	1.20E-02			1,40E-02 -2.50E-04		3.19E-03 8.70E-04			
	1.12E-02			1.29E-02 2.85E-04		2.83E-03 7.95E-04		4.86E-04	
141	1.05E-02	1.97E-03	359	1.19E-02 6.81E-04		2.51E-03 7.33E-04		3.52E-04	
142	9.81E-03	2.08E-03	360	1.10E-02 1.01E-03	578	2.23E-03 6.65E-04	796	2.28E-04	4.14E-04
	9.23E-03			1.02E-02 1.24E-03	579	1.98E-03 6.01E-04	797	1.11E-04	4.06E-04
	8.70E-03			9.58E-03 1.41E-03		1.76E-03 5.43E-04	798		4.03E-04
				8.99E-03 1.55E-03		2.68E-06 -2.16E-02		1.88E-03	
	8.22E-03								
	7.78E-03			8.45E-03 1.66E-03		2.14E-03 -2.12E-02		1.66E-03	
	7.37E-03			7.97E-03 1.74E-03		4.08E-03 -2.04E-02		1.46E-03	
148	6.87E-03	2.25E-03	366	7.53E-03 1.80E-03	584	5.89E-03 -1.90E-02		1.28E-03	
	6.43E-03		367	7.12E-03 1.84E-03	585	7,61E-03 -1.77E-02	803	1.06E-03	5.32E-04
	6,02E-03			6.63E-03 1.86E-03		8.62E-03 -1.60E-02	804	8.54E-04	4.80E-04
	5.65E-03			6.18E-03 1.86E-03		9.46E-03 -1.40E-02		6.76E-04	
								5.16E-04	
	5.30E-03			5.78E-03 1.84E-03		1.01E-02 -1.20E-02			
	4.99E-03			5.41E-03 1.81E-03		1.04E-02 -1.02E-02		3.72E-04	
	4.69E-03			5.07E-03 1.77E-03		1.03E-02 -6.73E-03		2.40E-04	
155	4.42E-03	1.86E-03	373	4.76E-03 1.71E-03	591	9.71E-03 -4.09E-03	809	1.17E-04	
	4.16E-03			4.47E-03 1.66E-03	592	8.75E-03 -2.16E-03	810	0	3.62E-04
	3.92E-03			4.19E-03 1.60E-03		7.90E-03 -9.96E-04		1.72E-03	
	3.69E-03			3.94E-03 1.53E-03		6.90E-03 -2.23E-04		1.46E-03	
						6.03E-03 2.72E-04		1.23E-03	
159	3.48E-03	1.58E-03	3//	3.71E-03 1.47E-03	282	0.03E-03 Z./ZE-04	013	1.202-00	J.JJ.E-04

## T-cre-2-00006, Aw. 0

			- 1					
160	3.28E-03 1.51E-03	378	3.49E-03 1.41E-03	596	5.25E-03 5.36E-04	814	1.00E-03	4.78E-04
161	3.09E-03 1.44E-03	379	3.28E-03 1.34E-03	597	4.49E-03 6.84E-04	815	8.14E-04	4.30E-04
	2.91E-03 1.38E-03	380	3.09F-03 1.28F-03	598	3.85E-03 7.08E-04	816	6.42E-04	3.92E-04
	2.74E-03 1.32E-03	201	2.005-03 1.225-03	599	3.30F-03 6.86F-04	817	4 91 F-04	3.66E-04
		300	2.700 02 1 175 02	600	2.81E-03 6.26E-04	818	3.54F-04	3.46F-04
	2.58E-03 1.26E-03	382	2.73E-03 1.17E-03	000	2.01E-03 0.20E-04	010	0.00=04	2 225 04
	2.42E-03 1.20E-03	383	2.57E-03 1.11E-03	601	2.42E-03 5.66E-04	619	2.200-04	3.325-04
166	-2.69E-06 -0.21312	384	2.41E-03 1.06E-03	602	2.08E-03 4.95E-04	820	1.11E-04	3.25E-04
167	4.88E-03 -0.21284	385	2.26E-03 1.01E-03	603	1,78E-03 4.36E-04	821	0	3.22E-04
	1.03E-02 -0.21228	386	-6 47E-07 -0.11553	604	1.53E-03 3.82E-04	822	1.57E-03	5.61E-04
	1.75E-02 -0.21072	387	6.37E-03 -0.11479	605	2 42F-06 -1.26E-02	823	1.28E-03	4.85E-04
	2.50E-02 -0.20846	200	1 265 03 0 11201	606	1.58E-03 -1.23E-02	824	1.04F-03	4.25F-04
		300	1,205-02 -0.11301	600	2.175.02 1.105.02	925	0.335-04	3.76E-04
	3.28E-02 -0.20484	389	1.89E-02 -0.11022	007	3.176-03 -1.106-02	020	0.335-04	0.702-04
	4.09E-02 -0.20032	390	2.45E-02 -0.10653	608	4.41E-03 -1.11E-02	620	0.00=-04	3.37 = 04
173	5.25E-02 -0.19139	391	2.91E-02 -0.10118	609	5.35E-03 -9.98E-03	827	4.97E-04	3.10⊑-04
174	6.51E-02 -0.17782	392	3.43E-02 -9.51E-02	610	6.45E-03 -8.91E-03	828	3.57E-04	2.91E-04
175	7.66E-02 -0.15825	393	3.81E-02 -8.84E-02	611	7.07E-03 -7.75E-03	829	2.29E-04	2.77E-04
	8.46E-02 -0.13306	394	4 10F-02 -8.08E-02	612	7.49E-03 -6.55E-03	830	1.11E-04	2.70E-04
	B.69E-02 -0.10435	205	4.31E-02 -7.29E-02	613	7.81E-03 -4.26E-03	831	ο	2.67E-04
470	0.09E-02 -0.10433	000	4.010-02 -7.250-02	614	7.6E-03 -2.43E-03	832	1.41F-03	4.56F-04
1/8	8.20E-UZ -7.72E-UZ	390	4.435-02 -0.495-02	014	0.755.00 4.045.00	922	1.175.00	2.00E 04
179	7.41E-02 -5.52E-02	397	4,46E-02 -5.46E-02	615	6.75E-03 -1.21E-03	633	1.125-03	3.00E-04
180	8.26E-02 -7.72E-02 7.41E-02 -5.52E-02 6.43E-02 -3.94E-02 5.52E-02 -2.89E-02	398	4.37E-02 -4.52E-02	616	5.99E-03 -4.04E-04	834	8.86E-04	3.34E-04
181	5.52E-02 -2.89E-02	399	4.14E-02 -3.70E-02	617	5.17E-03 4.41E-05	835	6.83E-04	2.91E-04
182	4.80E-02 -2.18E-02	400	3.92E-02 -2.99E-02	618	4.41E-03 3.13E-04	836	5.17E-04	2.63E-04
183	4.21E-02 -1.69E-02	401	3.63E-02 -2.40E-02	619	3.70E-03 4.29E-04	837	3.67E-04	2.40E-04
184	3.75E-02 -1.32E-02	402	3 34E-02 -1.92E-02	620	3.07E-03 4.54E-04	83B	2.34E-04	2.27E-04
405	5.52E-02 -2.89E-02 4.80E-02 -2.18E-02 4.21E-02 -1.69E-02 3.75E-02 -1.32E-02 3.16E-02 -8.94E-03 2.73E-02 -6.04E-03	402	2 02E-02 -1 36E-02	621	2.56E-03 4.42E-04	839	1.13E-04	2.19E-04
400	0.705.00.0045.00	404	2.65.02 0.665.03	622	2.15=03 3.72=04	840	Λ	216F-04
100	2.735-02 -0.045-03	404	2.502-02 -9.502-00	600	1.70 02 2.21 04	941	1 10 = 02	3 10E-04
187	2.39E-02 -3.96E-03	405	2.24E-02 -0.09E-03	023	1.70=-03 3.31=-04	040	0.135-04	2.565-04
188	2.12E-02 -2.43E-03	406	1.98E-02 -4.52E-03	624	1.49E-03 2.80E-04	042	9.135-04	2.000-04
189	1.90E-02 -1.31E-03	407	1.77E-02 -3.07E-03	625	1.24E-03 2.37E-04	843	6.90E-04	2.20E-04
190	3.16E-02 -8.94E-03 2.73E-02 -6.04E-03 2.39E-02 -3.96E-03 2.12E-02 -2.43E-03 1.90E-02 -1.31E-03 1.71E-02 -4.39E-04	408	1.58E-02 -1.90E-03	626	2.08E-06 -6.48E-03	844	5.17E-04	1.85E-04
191	1.56E-02 2.10E-04	409	1.43E-02 -9.73E-04	627	1.23E-03 -6.42E-03	845	3.61E-04	1.68E-04
192	1.56E-02 2.10E-04 2 1.42E-02 7.29E-04 3 1.31E-02 1.11E-03 1.21E-02 1.42E-03	410	1.30E-02 -3.16E-04	628	2.28E-03 -6.00E-03	846	2.29 <b>E</b> -04	1.55E-04
193	1.31E-02 1.11E-03	411	1.18E-02 2.26E-04	629	3.51E-03 -5.49E-03	847	1.10E-04	1.47E-04
194	1 21F-02 1 42F-03	412	1.08E-02 6.31E-04	630	4.06E-03 -5.13E-03	848	0	1.45E-04
105	1 12E-02 1 65E-03	413	1.01F-02 8.99F-04	631	4.74E-03 -4.39E-03	849	9.18E-04	1.87E-04
105	5 1.12E-02 1.65E-03 5 1.04E-02 1.81E-03 7 9.79E-03 1.93E-03 8 9.20E-03 2.03E-03	414	9.41E-03 1.13E-03	632	5.22E-03 -3.69E-03	850	6.76E-04	1.53E-04
100	0.705.00 1.015-03	415	9.71E-03 1.10E-03	633	5.58E-03 -2.23E-03	851	4.84F-04	1 22F-04
197	9.79E-03 1.93E-03	410	0.715-03 1.325-03	604	5.30E-03 -2.10E-03	952	3.425-04	1.07E-04
198	9.20E-03 2.03E-03	416	8.07E-03 1.47E-03	034	4.70E-00 -1.10E-03	052	3.42E-04	0.455.05
199	8.66E-03 2.09E-03	417	7.51E-03 1.58E-03	635	4./9E-03 -5.35E-04	033	2.126-04	9.40E-00
200	8.18E-03 2.14E-03	418	7.01E-03 1.64E-03	636	4.06E-03 -6.82E-05	854	1.01E-04	8.83E-05
201	7.73E-03 2.16E-03	419	6.48E-03 1.68E-03	637	3.38E-03 1.22E-04	855	. 0	8.56E-05
202	2 7.33E-03 2.17E-03	420	6.02E-03 1.70E-03	638	2.72E-03 2.30E-04	856	6.36E-04	8.76E-05
203	6.83E-03 2.17E-03	421	5.60E-03 1.68E-03	639	2.20E-03 2.43E-04	857	4.28E-04	8.06E-05
204	7.73E-03 2.16E-03 2.7.33E-03 2.17E-03 3.6.38E-03 2.15E-03 5.597E-03 2.15E-03 5.50E-03 2.06E-03	422	5.22E-03 1.66E-03	640	1,73E-03 2,08E-04	858	3.02E-04	5.35E-05
205	5.97E-03 2.11E-03	423	4.87E-03 1.61E-03	641	1.44E-03 2.04E-04	859	1.83E-04	5.06E-05
200	5 E 60 E 03 2 06 E 03	121	4.55E-03 1.57E-03	642	1.15E-03 1.50E-04	. 860	8.74E-05	4.30E-05
200	5.000-03 2.000-03	405	4.05E-03 1.57E-03	642	0.15E-04 1.23E-04	961	00	4.06E-05
207	5.26E-03 2.00E-03	420	4.25E-03 1.51E-03	040	4.475.00 0.745.00		2 27E 04	3.00E 05
208	3 4.94E-03 1.94E-03	426	3,98E-03 1.45E-03	044	-1.1/E-00 -2./1E-00	002	1.00E 04	2.000-05
209	9 4.64E-03 1.87E-03	427	3.72E-03 1.39E-03	045	8.26E-04 -2.03E-03	003	1.99E-04	2.705-05
210	) 4.37E-03 1.80E-03	428	3.48E-03 1.33E-03	646	1.62E-03 -2.60E-03	864	1.42E-04	2.42E-05
211	4.11E-03 1.73E-03	429	3.26E-03 1.26E-03	647	1.85E-03 -2.35E-03	865	5.87E-05	1.09E-05
212	2 3,87E-03 1.66E-03	430	3.05E-03 1.20E-03	648	2.44E-03 -1.99E-03	866	0	1.54E-05
213	3.65E-03 1.59E-03	431	2.86E-03 1.14E-03	649	2.84E-03 -1.63E-03	867	0	0
214	3.44E-03 1.53E-03	432	2.68E-03 1.08E-03	650	3.15E-03 -1.06E-03	868	0	0
219	3 24F-03 1 46F-03	433	2.51E-03 1.03E-03	651	3.04E-03 -5.68E-04	869	0	0
214	3 055-03 1 305-03	ASA	2.35E-03 9.77E-04	652	2.81E-03 -3.15F-04	870	0	Ō
210	7 0.035-03 1.355-03	404	2105-03 0285-04	653	2.46E-03 -9.58E-05		_	-
211	. 2.01E*U3 1.03E*U3	400	1 AOE OF PREE AO	854	2.05E-03 1.60E-05			
218	3 9.20E-03 2.03E-03 9 8.66E-03 2.09E-03 9 8.66E-03 2.14E-03 7.73E-03 2.17E-03 10 6.33E-03 2.17E-03 11 6.38E-03 2.17E-03 12 5.26E-03 2.15E-03 13 5.26E-03 2.00E-03 14 9.4E-03 1.87E-03 14 4.64E-03 1.87E-03 14 4.7E-03 1.80E-03 14 4.11E-03 1.73E-03 15 4.87E-03 1.59E-03 16 4.66E-03 1.59E-03 17 3.44E-03 1.59E-03 18 3.44E-03 1.59E-03 18 3.44E-03 1.59E-03 18 3.44E-03 1.33E-03 18 3.24E-03 1.39E-03 18 3.24E-03 1.39E-03 18 2.87E-03 1.33E-03 18 2.87E-03 1.32E-03	430	3.49E-03 1.41E-03 3.28E-03 1.34E-03 3.09E-03 1.2E-03 2.90E-03 1.2E-03 2.73E-03 1.17E-03 2.41E-03 1.06E-03 2.26E-03 1.01E-03 6.37E-07 -0.11553 6.37E-03 -0.11479 1.26E-02 -0.11022 2.45E-02 -0.10653 2.91E-02 -0.1018 3.43E-02 -9.51E-02 3.81E-02 -9.51E-02 4.45E-02 -8.84E-02 4.10E-02 -8.08E-02 4.31E-02 -7.29E-02 4.34E-02 -4.52E-02 4.46E-02 -5.46E-02 4.46E-02 -5.46E-02 4.46E-02 -1.90E-03 1.36E-02 -1.90E-03 1.36E-02 -1.90E-03 1.37E-02 -1.36E-02 2.26E-02 -9.56E-03 2.24E-02 -6.69E-03 1.36E-02 -1.90E-03 1.37E-02 -3.07E-03 1.58E-02 -1.90E-03 1.43E-02 -9.73E-04 1.08E-02 -1.90E-03 1.43E-02 -9.73E-04 1.08E-02 -1.90E-03 1.43E-03 1.32E-03 1.77E-02 -3.07E-03 1.58E-03 1.32E-03 1.71E-03 1.58E-03 7.51E-03 1.58E-03 7.51E-03 1.58E-03 8.07E-03 1.58E-03 1.75E-03 1.58E-03 3.05E-03 1.58E-03 3.05E-03 1.58E-03 3.05E-03 1.58E-03 3.05E-03 1.58E-03 3.05E-03 1.58E-03 3.05E-03 1.59E-03	504	2.00E 00 1.00E 00	•		

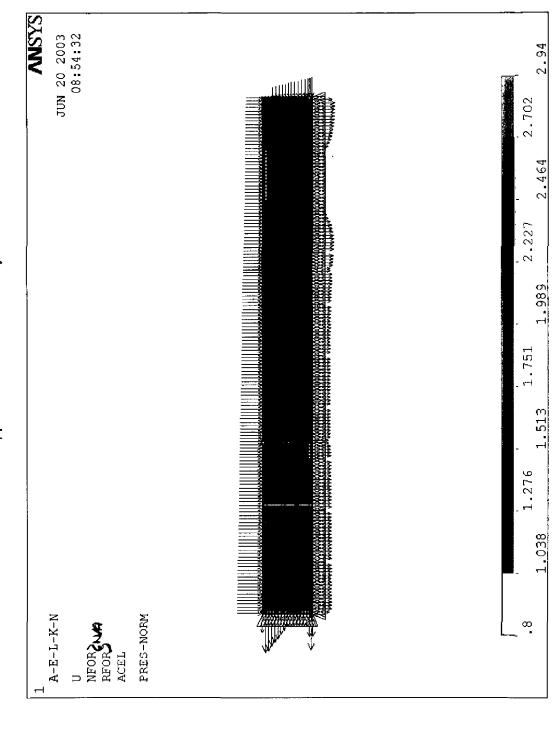
MAXIMUN ABSOLUTE VALUES NODE 122 1 VALUE -8.90E-02 0.27379

MODEL 300



Model 300 Element Layout

Model 300 - Applied Loads and Boundary Conditions



Node	x	Υ	Node	х	Υ	Node	х	Υ	Node	х	Y	Node	х	Υ	Node	x	Υ
1	0.00	0.00	21043	5.40	1.00	51453		-		260.75			240.75			134.75	
2 3	1.50 1.50	0.00 2.00	21044 21045	7.35 9.30	1.00 1.00	51454 51455		10.33 12.00		260.75 260.75			240.75 240.75			134.75 134.75	
4	1.50	1.00	21046	11.25	1.00	51456	40.75		52739	260.75	18.67		240.75			134.75	
5	0.00	2.00	21047 21048	13.20	1.00	51457		15.33		260.75			240.75			134.75	
6 178	0.00 101.50	1.00 0.00	21048	15.15 17.10	1.00 1.00	51458 51459	40.75 40.75	17.00		260.75 260.75			240.75 240.75			136.75 136.75	
	101.50		21050	19.05	1.00	51460	40.75		-	260.75			240.75			136.75	
	101.50		21051	21.00	1.00	51461		22.00		262.75			240.75			136.75	
	100.00		21052 21053	22.95 24.90	1.00	51462 51463	40.75	23.67 25.33		262.75 262.75			212.75 214.75			136.75 136.75	
	100.00	1.00	21054	26.85	1.00	51464	42.75			262.75			216.75			136.75	
	200.00		21055	28.80	1.00	51465	42.75		52748	262.75	10.33		218.75		53217	136.75	15.33
	201.50 201.50	0.00 2.00	21056	90.75	0.00	51466				262.75			220.75			136.75	
	201.50	1.00	21057 21058	98.15 96.30	0.00	51467 51468	42.75	8.67 10.33		262.75 262.75			222.75 224.75			136.75 136.75	
	200.00	2.00	21059	94.45	0.00	51469		12.00		262.75			226.75			136.75	
	200.00	1.00	21060	92.60		51470	42.75			262.75			228.75			136.75	
	300.00 301.50	0.00 0.00	21061 21062		2.00 2.00	51471 51472	42.75	15.33		262.75 262.75			230.75 232.75			136.75 138.75	
	301.50	2.00	21063	96.30	2.00	51473	42.75			262.75			234.75			138.75	
	301.50	1.00	21064	94.45	2.00	51474	42.75			262.75			236.75			138.75	
	300.00	2.00 1.00	21065 21066	92.60 90.75	2.00 1.00	51475 51476	42.75 42.75			264.75 264.75			238.75 210.75	27.00 3.67		138.75	
	301.50		21067	92.60	1.00	51477	42.75			264.75			210.75	5.33		138.75 138.75	
	301.50	3.80	21068	94.45	1.00	51478				264.75			210.75	7.00		138.75	
	301.50 301.50	5.60	21069	96.30	1.00	51479	44.75	5.33		264.75			210.75			138.75	
	301.50	7.40 9.20	21070 30001	98.15 0.00	1.00 0.00	51480 51481	44.75 44.75	7.00 8.67		264.75 264.75			210.75 210.75			138.75 138.75	
10608	301.50	11.00	30002	1.50	0.00	51482	44.75			264.75			210.75			138.75	
	301.50			101.50	0.00	51483		12.00		264.75			210.75			138.75	
	301.50 301.50			100.00	0.00	51484 51485	44.75 44.75			264.75 264.75			210.75 210.75			138.75 138.75	
	301.50			201.50	0.00	51486	44.75			264.75			210.75			140.75	
	301.50			300.00	0.00	51487		18.67		264.75			210.75			140.75	
	301.50 301.50			301.50 120.75	0.00	51488 51489	44.75 44.75			264.75 266.75			210.75 210.75			140.75 140.75	
	301.50			103.43	0.00	51490	44.75			266.75			212.75	3.67		140.75	
10617	301.50	27.20	50605	105.35	0.00	51491	44.75	25.33	52774	266.75	7.00	52128	212.75	5.33		140.75	
	300.00			107.28	0.00	51492	46.75			266.75			212.75	7.00		140.75	
	300.00			109.20 111.13	0.00	51493 51494	46.75 46.75	5.33 7.00		266.75 266.75			212.75 212.75	8.67 10.33		140.75 140.75	
	300.00			113.05	0.00	51495	46.75	8.67		266.75			212.75			140.75	
	300.00			114.98	0.00	51496	46.75			266.75			212.75			140.75	
	300.00			116.90 118.83	0.00	51497 51498	46.75 46.75	12.00		266.75 266.75			212.75 212.75			140.75 140.75	
	300.00		50633		0.00	51499	46.75			266.75			212.75			140.75	
	300.00		50634	60.75	0.00	51500	46.75			266.75			212.75			142.75	
	300.00		50635 50636	32.75 34.75	0.00	51501 51502	46.75 46.75			266.75 266.75			212.75 212.75			142.75 142.75	5.33
	300.00		50637	36.75	0.00	51502	46.75			268.75	3.67		212.75			142.75	
	300.00		50638	38.75	0.00	51504	46.75	23.67		268.75	-		214.75	3.67		142.75	
	300.00		50639		0.00	51505	46.75			268.75	7.00		214.75			142.75	
	300.00 101.50		50640 50641	42.75 44.75		51506 51507	48.75 48.75			268.75 268.75			214.75 214.75			142.75 142.75	
	101.50		50642	46.75		51508	48.75			268.75			214.75			142,75	
	101.50		50643	48.75		51509				268.75			214.75			142.75	
	101.50 101.50		50644 50645	50.75 52.75		51510 51511	48.75 48.75			268.75 268.75			214.75 214.75			142.75 142.75	
	101.50		50646	54.75		51512				268.75			214.75			142.75	
	101.50		50647	56.75		51513	48.75			268.75			214.75			142.75	
	101.50		50648	58.75		51514 51515				268.75			214.75 214.75			144.75	
	101.50 101.50		50681 50682	60.75 90.75		51516	48.75 48.75			268.75 268.75			214.75			144.75 144.75	
10643	101.50	20.00	50683	62.75	0.00	51517	48.75	22.00	52800	300.00	27.00	52154	214.75	25.33		144.75	
	101.50		50684		0.00	51518	48.75			300.00			216.75			144.75	
	101.50 101.50		50685 50686	66.75 68.75	0.00	51519 51520	48.75 50.75			300.00			216.75 216.75			144.75 144.75	
	101.50		50687	70.75	0.00	51521	50.75			300.00			216.75		53272		
10648	100.00	29.00	50688	72.75	0.00	51522	50.75	7.00	52805	300.00	10.33	52159	216.75	10.33	53274	144.75	17.00
	100.00		50689	74.75 78.75	0.00	51523 51524	50.75			300.00			216.75		53275 53276		
	100.00		50690 50691	76.75 78.75	0.00	51524 51525	50.75 50.75			300.00			216.75 216.75		53276	144.75 144.75	
10652	100.00	9.20	50692	80.75	0.00	51526	50.75	13.67	528 <b>09</b>	300.00	17.00	52163	216.75	17.00	53278	144.75	23.67
	100.00		50693		0.00	51527	50.75			300.00			216.75			144.75	
10654	100.00	12.80	20094	84.75	0.00	51528	50.75	17.00	52811	300.00	20.33	02105	216.75	20.33	53280	146.75	3.67

	100.00 14.60		0.00 51529		52812 300.00 22.00	52166 216.75 22.00	53281 146.75 5.33
	100.00 16.40		0.00 51530		52813 300.00 23.67	52167 216.75 23.67	53282 146.75 7.00
	100.00 18.20		0.00 51531		52814 300.00 25.33	52168 216.75 25.33	53283 146.75 8.67
	100.00 20.00		0.00 51532		52815 272.70 27.00	52169 218.75 3.67	53284 146.75 10.33
	100.00 21.80		0.00 51533		52816 274.65 27.00	52170 218.75 5.33	53285 146.75 12.00
	100.00 25.40		0.00 51534 0.00 51535		52817 276.60 27.00 52818 278.55 27.00	52171 218.75 7.00 52172 218.75 8.67	53286 146.75 13.67 53287 146.75 15.33
	100.00 27.20		0.00 51536		52819 280.50 27.00	52172 218.75 8.67 52173 218.75 10.33	53288 146.75 17.00
	201.50 29.00		0.00 51530		52820 282.45 27.00	52174 218.75 12.00	53289 146.75 18.67
	201.50 3.80		0.00 51538		52821 284.40 27.00	52175 218.75 13.67	53290 146.75 20.33
	201.50 5.60		0.00 51539		52822 286.35 27.00	52176 218.75 15.33	53291 146.75 22.00
	201.50 7.40	50748 126.75			52823 288.30 27.00	52177 218.75 17.00	53292 146.75 23.67
	201.50 9.20		0.00 51541		52824 290.25 27.00	52178 218.75 18.67	53293 146.75 25.33
	201.50 11.00		0.00 51542		52825 292.20 27.00	52179 218.75 20.33	53294 148.75 3.67
	201.50 12.80		0.00 51543		52826 294.15 27.00	52180 218.75 22.00	53295 148.75 5.33
10670	201.50 14.60	50752 134.75	0.00 51544	52.75 20.33	52827 296.10 27.00	52181 218.75 23.67	53296 148.75 7.00
10671	201.50 16.40	50753 136.75	0.00 51545	52.75 22.00	52828 298.05 27.00	52182 218.75 25.33	53297 148.75 8.67
10672	201.50 18.20	50754 138.75	0.00 51546	52.75 23.67	52829 270.75 3.67	52183 220.75 3.67	53298 148.75 10.33
10673	201.50 20.00	50755 140.75	0.00 51547	52.75 25.33	52830 270.75 5.33	52184 220.75 5.33	53299 148.75 12.00
10674	201.50 21.80	50756 142.75	0.00 51548	54.75 3.67	52831 270.75 7.00	52185 220.75 7.00	53300 148.75 13.67
	201.50 23.60		0.00 51549		52832 270.75 8.67	52186 220.75 8.67	53301 148.75 15.33
	201.50 25.40		0.00 51550		52833 270.75 10.33	52187 220.75 10.33	53302 148.75 17.00
	201.50 27.20		0.00 51551		52834 270.75 12.00	52188 220.75 12.00	53303 148.75 18.67
	200.00 29.00		0.00 51552		52835 270.75 13.67	52189 220.75 13.67	53304 148.75 20.33
	200.00 3.80		0.00 51553		52836 270.75 15.33	52190 220.75 15.33	53305 148.75 22.00
	200.00 5.60		0.00 51554		52837 270.75 17.00	52191 220.75 17.00	53306 148.75 23.67
	200.00 7.40		0.00 51555		52838 270.75 18.67	52192 220.75 18.67	53307 148.75 25.33
	200.00 9.20		0.00 51556 0.00 51557		52839 270.75 20.33 52840 270.75 22.00	52193 220.75 20.33 52194 220.75 22.00	53308 120.75 3.67
	200.00 11.00		0.00 51558		52841 270.75 23.67	52195 220.75 23.67	53309 120,75 5.33 53310 120,75 7.00
	200.00 14.60		0.00 51559		52842 270.75 25.33	52196 220.75 25.33	53310 120.75 7.00
	200.00 16.40		0.00 51560		52843 272.70 3.67	52197 222.75 3.67	53312 120.75 10.33
	200.00 18.20		0.00 51561		52844 272.70 5.33	52198 222.75 5.33	53313 120.75 12.00
	200.00 20.00		0.00 51562		52845 272.70 7.00	52199 222.75 7.00	53314 120.75 13.67
10689	200.00 21.80		0.00 51563		52848 272.70 8.67	52200 222.75 8.67	53315 120.75 15.33
10690	200.00 23.60	50804 172.75	0.00 51564	56.75 7.00	52847 272.70 10.33	52201 222.75 10.33	53316 120.75 17.00
10691	200.00 25.40	50805 174.75	0.00 51565	56.75 8.67	52848 272.70 12.00	52202 222.75 12.00	53317 120.75 18.67
10692	200.00 27.20	50806 176.75	0.00 51566	56.75 10.33	52849 272.70 13.67	52203 222.75 13.67	53318 120.75 20.33
10693	1.50 29.00	50807 178.75	0.00 51567	56.75 12.00	52850 272.70 15.33	52204 222.75 15.33	53319 120.75 22.00
10694			0.00 515 <del>6</del> 8		52851 272.70 17.00	52205 222.75 17.00	53320 120.75 23.67
10695			0.00 51569		52852 272.70 18.67	52206 222.75 18.67	53321 120.75 25.33
10696			0.00 51570		52853 272.70 20.33	52207 222.75 20.33	53322 101.50 27.00
10697	1.50 9.20		0.00 51571		52854 272.70 22.00	52208 222.75 22.00	53323 103.43 27.00
10698	1.50 11.00		0.00 51572		52855 272.70 23.67	52209 222.75 23.67	53324 105.35 27.00
10699 10700	1.50 12.80 1.50 14.60		0.00 51573 0.00 51574		52856 272.70 25.33 52857 274.65 3.67	52210 222.75 25.33	53325 107.28 27.00
10700	1.50 16.40		0.00 51574 0.00 51575		52858 274.65 5.33	52211 224.75 3.67 52212 224.75 5.33	53326 109.20 27.00 53327 111.13 27.00
10701			0.00 51576		52859 274.65 7.00	52213 224.75 7.00	53328 113.05 27.00
10703			0.00 51577		52860 274.65 8.67	52214 224.75 8.67	53329 114.98 27.00
10704			0.00 51578		52861 274.65 10.33	52215 224.75 10.33	53330 116.90 27.00
10705			0.00 51579		52862 274.65 12.00	52216 224.75 12.00	53331 118.83 27.00
10706	1.50 25.40	50872 212.75	0.00 51580	58.75 10.33	52863 274.65 13.67	52217 224.75 13.67	53332 101.50 3.67
10707	1.50 27.20	50873 214.75 (	0.00 51581	58.75 12.00	52864 274.65 15.33	52218 224.75 15.33	53333 101.50 5.33
10708	0.00 29.00	50874 216.75	0.00 51582	58.75 13.67	52865 274.65 17.00	52219 224.75 17.00	53334 101.50 7.00
10709		50875 218.75	0.00 51583	58.75 15.33	52866 274.65 18.67	52220 224.75 18.67	53335 101.50 8.67
10710				58.75 17.00	52867 274.65 20.33	52221 224.75 20.33	53336 101.50 10.33
10711	0.00 7.40		0.00 51585		52868 274.65 22.00	52222 224.75 22.00	53337 101.50 12.00
10712			0.00 51586		52869 274.65 23.67	52223 224.75 23.67	53338 101.50 13.67
10713				58.75 22.00	52870 274.65 25.33	52224 224.75 25.33	53339 101.50 15.33
10714			0.00 51588	58.75 23.67 58.75 25.33	52871 276.60 3.67 52872 276.60 5.33	52225 226.75 3.67 52226 226.75 5.33	53340 101.50 17.00
10715	0.00 4460		0.00 51589	2012 22 33			
10710							53341 101.50 18.67
10716	0.00 16.40	50882 232.75 (	0.00 51590	180.75 27.00	52873 276.60 7.00	52227 226.75 7.00	53342 101.50 20.33
10717	0.00 16.40 0.00 18.20	50882 232.75 ( 50883 234.75 (	0.00 51590 0.00 51591	180.75 27.00 180.75 3.67	52873 276.60 7.00 52874 276.60 8.67	52227 226.75 7.00 52228 226.75 8.67	53342 101.50 20.33 53343 101.50 22.00
10717 10718	0.00 16.40 0.00 18.20 0.00 20.00	50882 232.75 0 50883 234.75 0 50884 236.75 0	0.00 51590 0.00 51591 0.00 51592	180.75 27.00 180.75 3.67 180.75 5.33	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67
10717 10718 10719	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80	50882 232.75 0 50883 234.75 0 50884 236.75 0 50885 238.75 0	0.00 51590 0.00 51591 0.00 51592 0.00 51593	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 12.00	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33
10717 10718 10719 10720	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 23.60	50882 232.75 0 50883 234.75 0 50884 236.75 0 50885 238.75 0 50918 240.75 0	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51594	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 8.67	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 13.67	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 12.00 52231 226.75 13.67	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67
10717 10718 10719	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 23.60 0.00 25.40	50882 232.75 0 50883 234.75 0 50884 236.75 0 50885 238.75 0 50918 240.75 0 50919 270.75 0	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51594 0.00 51595	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 12.00	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 25.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33
10717 10718 10719 10720 10721 10722	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 23.60 0.00 25.40	50882 232.75 (50883 234.75 (50884 236.75 (50918 240.75 (50919 270.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50920 242.75 (50	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51594 0.00 51595 0.00 51596	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 8.67 180.75 10.33	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 13.67 52878 276.60 15.33	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 12.00 52231 226.75 13.67 52232 226.75 15.33	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67
10717 10718 10719 10720 10721 10722 20603	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 23.60 0.00 25.40 0.00 27.20	50882 232.75 (50883 234.75 (50884 236.75 (50985 238.75 (50918 240.75 (50920 242.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50921 244.75 (50	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51594 0.00 51595 0.00 51596	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 8.67 180.75 10.33 180.75 12.00	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 13.67 52878 276.60 15.33 52879 276.60 17.00	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.30 52230 226.75 12.00 52231 226.75 15.33 52232 226.75 17.00	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00
10717 10718 10719 10720 10721 10722 20603 20604	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 23.60 0.00 25.40 0.00 27.20 120.75 0.00	50882 232.75 (50883 234.75 (50884 236.75 (50918 240.75 (50912 242.75 (50921 244.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50922 246.75 (50	0.00         51590           0.00         51591           0.00         51592           0.00         51593           0.00         51593           0.00         51594           0.00         51595           0.00         51596           0.00         51597           0.00         51598           0.00         51598	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 8.67 180.75 10.33 180.75 12.00 180.75 13.67	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 13.67 52878 276.60 15.33 52879 276.60 17.00 52880 276.60 18.67	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 12.00 52231 226.75 13.67 52232 226.75 15.33 52233 226.75 17.00 52234 226.75 18.67	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 8.67
10717 10718 10719 10720 10721 10722 20603 20604 20605	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 25.40 0.00 27.20 120.75 0.00 103.43 0.00	50882 232.75 (50883 234.75 (50884 236.75 (50918 240.75 (50919 270.75 (50920 242.75 (50922 246.75 (50922 246.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50923 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50924 248.75 (50	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51593 0.00 51595 0.00 51596 0.00 51597 0.00 51598	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 0.67 180.75 10.33 180.75 12.00 180.75 13.67 180.75 15.33	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 13.67 52878 276.60 13.67 52878 276.60 17.00 52880 276.60 18.67 52881 276.60 20.33	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 13.67 52231 226.75 15.33 52232 226.75 15.33 52233 226.75 17.00 52234 226.75 18.67 52235 226.75 20.33	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 8.67 53350 103.43 10.33
10717 10718 10719 10720 10721 10722 20603 20604 20605 20606	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 25.40 0.00 27.20 120.75 0.00 103.43 0.00 105.35 0.00	50882 232.75 (50883 234.75 (50884 236.75 (50918 240.75 (50919 270.75 (50920 242.75 (50921 244.75 (50922 246.75 (50923 248.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50924 250.75 (50	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51593 0.00 51593 0.00 51595 0.00 51596 0.00 51596 0.00 51598 0.00 51598	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 0.67 180.75 10.33 180.75 12.00 180.75 13.67 180.75 15.33 180.75 17.00	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 13.67 52878 276.60 15.33 52879 276.60 17.00 52880 276.60 18.67 52881 276.60 20.33 52882 276.60 22.00	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.33 52230 226.75 12.00 52231 226.75 13.67 52232 226.75 15.33 52233 226.75 17.00 52234 226.75 18.67 52235 226.75 20.33 52236 226.75 22.00	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 8.67 53350 103.43 10.33 53351 103.43 12.00
10717 10718 10719 10720 10721 10722 20603 20604 20605 20606 20607 20608	0.00 16.40 0.00 18.20 0.00 20.00 0.00 25.40 0.00 27.20 120.75 0.00 105.35 0.00 107.28 0.00 109.20 0.00 111.13 0.00	50882 232.75 ( 50883 234.75 ( 50884 236.75 ( 50985 238.75 ( 50919 270.75 ( 50920 242.75 ( 50921 244.75 ( 50922 246.75 ( 50923 248.75 ( 50923 245.75 ( 50925 252.75 ( 50926 254.75 (	0.00 5159C 0.00 51591 0.00 51592 0.00 51593 0.00 51593 0.00 51593 0.00 51596 0.00 51596 0.00 51597 0.00 51596 0.00 51596 0.00 51600 0.00 51600	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 10.33 180.75 12.00 180.75 13.67 180.75 15.33 180.75 17.00 180.75 18.67 180.75 20.33 180.75 20.33	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 12.00 52877 276.60 15.33 52879 276.60 17.00 52880 276.60 18.67 52881 276.60 20.33 52882 276.60 22.00 52883 276.60 23.67 52884 276.60 25.33 52885 278.50 3.67	52227 226.75 7.00 52228 226.75 8.67 52229 226.75 10.30 52230 226.75 12.00 52231 226.75 15.33 52232 226.75 17.00 52234 226.75 18.67 52236 226.75 20.33 52236 226.75 22.00 52237 226.75 23.67 52238 226.75 25.33 52238 226.75 25.33 52239 226.75 3.67	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 25.33 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 8.67 53350 103.43 10.33 53351 103.43 12.00 53352 103.43 12.00
10717 10718 10719 10720 10721 10722 20603 20604 20605 20606 20607 20608	0.00 16.40 0.00 18.20 0.00 21.80 0.00 25.40 0.00 27.20 120.75 0.00 105.35 0.00 107.28 0.00 111.13 0.00 113.05 0.00	50882 232.75 ( 50883 234.75 ( 50884 236.75 ( 50985 238.75 ( 50918 240.75 ( 50919 270.75 ( 50920 242.75 ( 50921 244.75 ( 50922 246.75 ( 50923 248.75 ( 50923 248.75 ( 50924 250.75 ( 50926 254.75 ( 50927 256.75 (	0.00 5159C 0.00 51591 0.00 51592 0.00 51592 0.00 51593 0.00 51596 0.00 51596 0.00 51596 0.00 51598 0.00 51600 0.00 51600 0.00 51600 0.00 51600	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 10.33 180.75 12.00 180.75 13.67 180.75 15.33 180.75 17.00 180.75 18.67 180.75 20.33 180.75 20.33 180.75 22.00 180.75 23.67	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 13.67 52877 276.60 13.67 52878 276.60 15.33 52879 276.60 18.67 52881 276.60 20.33 52882 276.60 22.00 52883 276.60 23.67 52884 276.60 23.67 52884 276.60 23.67 52885 278.55 3.67 52886 278.55 5.33	52227         226.75         7.00           52228         226.75         8.67           52229         226.75         10.33           52230         226.75         13.67           52231         226.75         15.33           52232         226.75         17.00           52234         226.75         18.67           52235         226.75         20.33           52236         226.75         22.00           52237         226.75         23.67           52238         226.75         23.67           52239         228.75         3.67           52249         228.75         5.33           52249         228.75         5.33	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 8.67 53350 103.43 10.33 53351 103.43 12.00 53352 103.43 13.67 53353 103.43 15.33 53354 103.43 17.00 53355 103.43 17.00
10717 10718 10719 10720 10721 10722 20603 20604 20605 20606 20607 20608 20609 20610	0.00 16.40 0.00 18.20 0.00 20.00 0.00 21.80 0.00 25.40 0.00 27.20 120.75 0.00 103.43 0.00 105.35 0.00 109.20 0.00 111.13 0.00 113.05 0.00 114.98 0.00	50882 232.75 ( 50883 234.75 ( 50884 236.75 ( 50985 238.75 ( 50918 240.75 ( 50920 242.75 ( 50921 244.75 ( 50922 246.75 ( 50923 248.75 ( 50923 248.75 ( 50924 250.75 ( 50926 254.75 ( 50927 256.75 ( 50928 258.75 (	0.00 5159C 0.00 51591 0.00 51592 0.00 51592 0.00 51593 0.00 51596 0.00 51596 0.00 51596 0.00 51698 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 10.33 180.75 12.00 180.75 13.67 180.75 15.33 180.75 17.00 180.75 18.67 180.75 20.33 180.75 22.00 180.75 23.67 180.75 23.67	52873         276.60         7.00           52874         276.60         8.67           52875         276.60         10.33           52876         276.60         13.67           52878         276.60         13.67           52879         276.60         17.00           52880         276.60         18.67           52881         276.60         20.33           52882         276.60         22.00           52883         276.60         23.67           52884         276.60         25.33           52885         278.55         3.67           52886         278.55         5.33           52887         278.55         7.00	52227         226.75         7.00           52228         226.75         8.67           52229         226.75         10.33           52230         226.75         13.67           52231         226.75         15.33           52232         226.75         17.00           52234         226.75         18.67           52235         226.75         20.33           52236         226.75         22.00           52237         226.75         23.67           52238         226.75         25.33           52239         228.75         3.67           52240         228.75         5.33           52240         228.75         5.33           52241         228.75         5.30	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 10.33 53351 103.43 12.00 53352 103.43 15.33 53351 103.43 15.33 53354 103.43 17.00 53355 103.43 17.00 53355 103.43 18.67 53356 103.43 20.33
10717 10718 10719 10720 10721 10722 20603 20604 20606 20607 20608 20609 20610 20611	0.00 16.40 0.00 18.20 0.00 21.80 0.00 25.40 0.00 27.20 120.75 0.00 105.35 0.00 107.28 0.00 111.13 0.00 113.05 0.00	50882 232.75 ( 50883 234.75 ( 50884 236.75 ( 50985 238.75 ( 50918 240.75 ( 50920 242.75 ( 50921 244.75 ( 50922 246.75 ( 50923 248.75 ( 50923 248.75 ( 50924 250.75 ( 50926 254.75 ( 50927 256.75 ( 50928 258.75 (	0.00 51590 0.00 51591 0.00 51592 0.00 51593 0.00 51593 0.00 51593 0.00 51595 0.00 51596 0.00 51596 0.00 51596 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600 0.00 51600	180.75 27.00 180.75 3.67 180.75 5.33 180.75 7.00 180.75 10.33 180.75 12.00 180.75 13.67 180.75 15.33 180.75 17.00 180.75 18.67 180.75 20.33 180.75 20.33 180.75 22.00 180.75 23.67	52873 276.60 7.00 52874 276.60 8.67 52875 276.60 10.33 52876 276.60 13.67 52877 276.60 13.67 52878 276.60 15.33 52879 276.60 18.67 52881 276.60 20.33 52882 276.60 22.00 52883 276.60 23.67 52884 276.60 23.67 52884 276.60 23.67 52885 278.55 3.67 52886 278.55 5.33	52227         226.75         7.00           52228         226.75         8.67           52229         226.75         10.33           52230         226.75         13.67           52231         226.75         15.33           52232         226.75         17.00           52234         226.75         18.67           52235         226.75         20.33           52236         226.75         22.00           52237         226.75         23.67           52238         226.75         23.67           52239         228.75         3.67           52249         228.75         5.33           52249         228.75         5.33	53342 101.50 20.33 53343 101.50 22.00 53344 101.50 23.67 53345 101.50 25.33 53346 103.43 3.67 53347 103.43 5.33 53348 103.43 7.00 53349 103.43 8.67 53350 103.43 10.33 53351 103.43 12.00 53352 103.43 13.67 53353 103.43 15.33 53354 103.43 17.00 53355 103.43 17.00

20613		2.00	50931	264.75 0.00	51607 154.75 27.00	52890 278.55 12.00	52244 228.75 12.00	53359 103.43 25.33
20614		1.00		266.75 0.00	51608 156.75 27.00	52891 278.55 13.67	52245 228.75 13.67	53360 105.35 3.67
20615		2.00		268.75 0.00	51609 158,75 27.00	52892 278.55 15.33	52246 228.75 15.33	53361 105.35 5.33
20616		2.00		270.75 0.00	51610 160,75 27.00	52893 278.55 17.00	52247 228.75 17.00	53362 105.35 7.00
20617		2.00		272.70 0.00	51611 162.75 27.00	52894 278.55 18.67	52248 228.75 18.67	53363 105.35 8.67
20618 20619		2.00		274.65 0.00	51612 164.75 27.00	52895 278.55 20.33	52249 228.75 20.33	53364 105.35 10.33
		2.00		276.60 0.00	51613 166.75 27.00	52896 278.55 22.00	52250 228.75 22.00	53365 105.35 12.00
20620		2.00		278.55 0.00	51614 168.75 27.00	52897 278.55 23.67	52251 228.75 23.67	53366 105.35 13.67
20621 20622		2.00		280.50 0.00	51615 170.75 27.00	52898 278.55 25.33	52252 228.75 25.33	53367 105.35 15.33
20623		2.00 2.00		282.45 0.00 284.40 0.00	51616 172.75 27.00	52899 280.50 3.67	52253 230.75 3.67	53368 105.35 17.00
20623		1.00		286.35 0.00	51617 174.75 27.00 51618 176.75 27.00	52900 280.50 5.33 52901 280.50 7.00	52254 230.75 5.33 52255 230.75 7.00	53369 105.35 18.67 53370 105.35 20.33
20625		1.00		288.30 0.00	51619 178.75 27.00	52902 280.50 8.67	52256 230.75 8.67	53371 105.35 22.00
20626		1.00		290.25 0.00	51620 150.75 3.67	52903 280.50 10.33	52257 230.75 10.33	53372 105.35 23.67
20627		1.00		292.20 0.00	51621 150.75 5.33	52904 280.50 12.00	52258 230.75 12.00	53373 105.35 25.33
20628		1.00		294.15 0.00	51622 150.75 7.00	52905 280.50 13.67	52259 230.75 13.67	53374 107.28 3.67
20629	113.05	1.00		296.10 0.00	51623 150,75 8.67	52906 280.50 15.33	52260 230.75 15.33	53375 107.28 5.33
20630	114.98	1.00	50980	298.05 0.00	51624 150.75 10.33	52907 280.50 17.00	52261 230.75 17.00	53376 107.28 7.00
20631	116.90	1.00	51011	30.75 0.00	51625 150.75 12.00	52908 280.50 18.67	52262 230.75 18.67	53377 107.28 8.67
20632	118.83	1.00	51012	3.45 0.00	51626 150.75 13.67	52909 280.50 20.33	52263 230.75 20.33	53378 107.28 10.33
20633	30.75	0.00	51013	5.40 0.00	51627 150.75 15.33	52910 280.50 22.00	52264 230.75 22.00	53379 107.28 12.00
20634	60.75	0.00	51014	7.35 0.00	51628 150.75 17.00	52911 280.50 23.67	52265 230.75 23.67	53380 107.28 13.67
20635	32.75	0.00	51015	9.30 0.00	51629 150.75 18.67	52912 280.50 25.33	52266 230.75 25.33	53381 107.28 15.33
20636	34.75	0.00	51016	11.25 0.00	51630 150.75 20.33	51683 158.75 15.33	52267 232.75 3.67	53382 107.28 17.00
20637	36.75	0.00	51017	13.20 0.00	51631 150.75 22.00	51684 158.75 17.00	52268 232.75 5.33	53383 107.28 18.67
20638	38.75	0.00	51018	15.15 0.00	51632 150.75 23.67	51685 158.75 18.67	52269 232.75 7.00	53384 107.28 20.33
20639	40.75	0.00	51019	17.10 0.00	51633 150.75 25.33	51686 158.75 20.33	52270 232.75 8.67	53385 107.28 22.00
20640	42.75	0.00	51020	19.05 0.00	51634 152.75 3.67	51687 158.75 22.00	52271 232.75 10.33	53386 107.28 23.67
20641	44.75	0.00	51021 51022	21.00 0.00	51635 152.75 5.33	51688 158.75 23.67	52272 232.75 12.00	53387 107.28 25.33
20642 20643	46.75 48.75	0.00	51022	22.95 0.00 24.90 0.00	51636 152.75 7.00 51637 152.75 8.67	51689 158.75 25.33	52273 232.75 13.67 52274 232.75 15.33	53388 109.20 3.67
20644	50.75	0.00	51023	26.85 0.00	51637 152.75 8.67 51638 152.75 10.33	51690 160.75 3.67 51691 160.75 5.33	52275 232.75 17.00	53389 109.20 5.33 53390 109.20 7.00
20645	52.75	0.00	51025	28.80 0.00	51639 152.75 12.00	51692 160.75 7.00	52276 232.75 18.67	53390 109.20 7.00
20646	54.75	0.00	51056	90.75 0.00	51640 152.75 13.67	51693 160.75 8.67	52277 232.75 20.33	53392 109.20 10.33
20647	56.75	0.00	51057	98.15 0.00	51641 152.75 15.33	51694 160.75 10.33	52278 232.75 22.00	53393 109.20 12.00
20648	58.75	0.00	51058	96.30 0.00	51642 152.75 17.00	51695 160.75 12.00	52279 232.75 23.67	53394 109.20 13.67
20649	60.75	2.00	51059	94.45 0.00	51643 152.75 18.67	51696 160.75 13.67	52280 232.75 25.33	53395 109.20 15.33
20650	60.75	1.00	51060	92.60 0.00	51644 152.75 20.33	51697 160.75 15.33	52281 234.75 3.67	53396 109.20 17.00
20651	30.75	2.00	51061	30.75 29.00	51645 152.75 22.00	51698 160.75 17.00	52282 234.75 5.33	53397 109.20 18.67
20652	58.75	2.00	51062	30.75 27.00	51646 152.75 23.67	51699 160.75 18.67	52283 234.75 7.00	53398 109.20 20.33
20653	56.75	2.00	51063	30.75 28.00	51647 152.75 25.33	51700 160.75 20.33	52284 234.75 8.67	53399 109.20 22.00
20654	54.75	2.00	51064	1.50 29.00	51648 154.75 3.67	51701 160.75 22.00	52285 234.75 10.33	53400 109.20 23.67
20655	52.75	2.00	51065	28.80 29.00	51649 154.75 5.33	51702 160.75 23.67	52286 234.75 12.00	53401 109.20 25.33
20656	50.75	2.00	51066	26.85 29.00	51650 154.75 7.00	51703 160.75 25.33	52287 234.75 13.67	53402 111.13 3.67
20657	48.75	2.00	51067	24.90 29.00	51651 154.75 8,67	51704 162.75 3.67	52288 234.75 15.33	53403 111.13 5.33
20658	46.75	2.00	51068	22.95 29.00 21.00 29.00	51652 154.75 10.33	51705 162.75 5.33	52289 234.75 17.00	53404 111.13 7.00
20659 20660	44.75 42.75	2.00	51069 51070	19.05 29.00	51653 154.75 12.00 51654 154.75 13.67	51706 162.75 7.00 51707 162.75 8.67	52290 234.75 18.67	53405 111.13 8.67
20661	40.75	2.00	51070	17.10 29.00	51655 154.75 15.33	51707 162.75 8.67 51708 162.75 10.33	52291 234.75 20.33 52292 234.75 22.00	53406 111.13 10.33 53407 111.13 12.00
20662	38.75	2.00	51072	15.15 29.00	51656 154,75 17,00	51709 162.75 12.00	52293 234.75 23.67	53408 111.13 13.67
20663	36.75	2.00	51073	13.20 29.00	51657 154.75 18.67	51710 162.75 13.67	52294 234.75 25.33	53409 111.13 15.33
20664	34.75	2.00	51074	11.25 29.00	51658 154.75 20.33	51711 162.75 15.33	52295 236.75 3.67	53410 111.13 17.00
20665	32.75	2.00	51075	9.30 29.00	51659 154.75 22.00	51712 162.75 17.00	52296 236.75 5.33	53411 111.13 18.67
20666	30.75	1.00	51076	7.35 29.00	51660 154.75 23.67	51713 162.75 18.67	52297 236.75 7.00	53412 111.13 20.33
20667	32.75		51077	5.40 29.00	51661 154.75 25.33	51714 162.75 20.33	52298 236.75 8.67	53413 111.13 22.00
20668	34.75	1.00	51078	3.45 29.00	51662 156.75 3.67	51715 162.75 22.00	52299 236.75 10.33	53414 111.13 23.67
20669		1.00	51079	1.50 27.00	51663 156.75 5.33	51716 162.75 23.67	52300 236.75 12.00	53415 111.13 25.33
20670		1.00	51080	1.50 28.00	51664 156.75 7.00	51717 162.75 25.33	52301 236.75 13.67	53416 113.05 3.67
20671		1.00	51081	3.45 27.00	51665 156.75 8.67	51718 164.75 3.67	52302 236.75 15.33	53417 113.05 5.33
20672		1.00	51082	5.40 27.00	51666 156.75 10.33	51719 164.75 5.33	52303 236.75 17.00	53418 113.05 7.00
20673		1.00	51083	7.35 27.00	51667 156.75 12.00	51720 164.75 7.00	52304 236.75 18.67	53419 113.05 8.67
20674		1.00	51084	9.30 27.00	51668 156.75 13.67	51721 164.75 8.67	52305 236.75 20.33	53420 113.05 10.33
20675		1.00	51085	11.25 27.00	51669 156.75 15.33	51722 164.75 10.33	52306 236.75 22.00	53421 113.05 12.00
20676		1.00	51086 51087	13.20 27.00 15.15 27.00	51670 156.75 17.00 51671 156.75 18.67	51723 164.75 12.00	52307 236.75 23.67 52308 236.75 25.33	53422 113.05 13.67
20677 20678	52.75 54.75	1.00	51088	17.10 27.00	51672 156.75 20.33	51724 164.75 13.67 51725 164.75 15.33	52309 238.75 25.33	53423 113.05 15.33 53424 113.05 17.00
20679		1.00	51089	19.05 27.00	51673 156.75 22.00	51726 164.75 17.00	52310 238.75 5.33	53425 113.05 18.67
20680		1.00	51090	21.00 27.00	51674 156.75 23.67	51727 164.75 18.67	52311 238.75 7.00	53426 113.05 20.33
20681	60.75		51091	22.95 27.00	51675 156.75 25.33	51728 164.75 20.33	52312 238.75 8.67	53427 113.05 22.00
20682	90.75		51092		51676 158.75 3.67	51729 164.75 22.00	52313 238.75 10.33	53428 113.05 23.67
20683	62.75		51093	26.85 27.00	51677 158.75 5.33	51730 164.75 23.67	52314 238.75 12.00	53429 113.05 25.33
20684	64.75		51094		51678 158.75 7.00	51731 164.75 25.33	52315 238.75 13.67	53430 114.98 3.67
20685	66.75		51095	28.80 28.00	51679 158.75 8.67	51732 166.75 3.67	52316 238.75 15.33	53431 114.98 5.33
20686	68.75		51096	26.85 28.00	51680 158.75 10.33	51733 166.75 5.33	52317 238.75 17.00	53432 114.98 7.00
20687	70.75		51097	24.90 28.00	51681 158.75 12.00	51734 166.75 7.00	52318 238.75 18.67	53433 114.98 8.67
20688	72.75			22.95 28.00	51682 158.75 13.67	51735 166.75 8.67	52319 238.75 20.33	53434 114.98 10.33
20689	74.75		51099	21.00 28.00	52382 64.75 8.67	51736 166.75 10.33	52320 238.75 22.00	53435 114.98 12.00
20690	76.75	0.00	51100	19.05 28.00	52383 64.75 10.33	51737 166.75 12.00	52321 238.75 23.67	53436 114.98 13.67

20691 78.75 0.00	51101 17.10 28.00	52384 64.75 12.00	51738 166.75 13.67	52322 238.75 25.33	53437 114.98 15.33
20692 80.75 0.00	51102 15.15 28.00	52385 64.75 13.67	51739 166.75 15.33	52323 90.75 3.67	53438 114.98 17.00
20693 82.75 0.00	51103 13.20 28.00	52386 64.75 15.33	51740 166.75 17.00	52324 90.75 5.33	53439 114.98 18.67
20694 84.75 0.00	51104 11.25 28.00	52387 64.75 17.00	51741 166.75 18.67	52325 90.75 7.00	53440 114.98 20.33
20695 86.75 0.00	51105 9.30 28.00	52388 64.75 18.67	51742 166.75 20.33	52326 90.75 8.67	53441 114.98 22.00
20696 88.75 0.00	51106 7.35 28.00	52389 64.75 20.33	51743 166.75 22.00	52327 90.75 10.33	53442 114.98 23.67
20697 90.75 2.00	51107 5.40 28.00	52390 64.75 22.00	51744 166.75 23.67	52328 90.75 12.00	53443 114.98 25.33
20698 90.75 1.00	51108 3.45 28.00	52391 64.75 23.67	51745 166.75 25.33	52329 90.75 13.67	53444 116.90 3.67
	51109 30.75 3.67	52392 64.75 25.33	51746 168.75 3.67	52330 90.75 15.33	53445 116.90 5.33
20700 88.75 2.00	51110 30.75 5.33	52393 66.75 3.67	51747 168.75 5.33	52331 90.75 17.00	53446 116.90 7.00
20701 86.75 2.00	51111 30.75 7.00	52394 66.75 5.33	51748 168.75 7.00	52332 90.75 18.67	53447 116.90 8.67
20702 84.75 2.00	51112 30.75 8.67	52395 66.75 7.00	51749 168.75 8.67	52333 90.75 20.33	53448 116.90 10.33
20703 82.75 2.00	51113 30.75 10.33	52396 66.75 8.67	51750 168.75 10.33	52334 90.75 22.00	53449 116.90 12.00
20704 80.75 2.00	51114 30.75 12.00	52397 66.75 10.33	51751 168.75 12.00	52335 90.75 23.67	53450 116.90 13.67
20705 78.75 2.00	51115 30.75 13.67	52398 66.75 12.00	51752 168.75 13.67	52336 90.75 25.33	53451 116.90 15.33
20706 76.75 2.00	51116 30.75 15.33	52399 66.75 13.67	51753 168.75 15.33	52337 62.75 27.00	53452 116.90 17.00
20707 74.75 2.00	51117 30.75 17.00	52400 66.75 15.33	51754 168.75 17.00	52338 64.75 27.00	53453 116.90 18.67
20708 72.75 2.00	51118 30.75 18.67	52401 66.75 17.00	51755 168.75 18.67	52339 66.75 27.00	53454 116.90 20.33
20709 70.75 2.00	51119 30.75 20.33	52402 66.75 18.67	51756 168,75 20.33	52340 68.75 27.00	53455 116.90 22.00
20710 68.75 2.00	51120 30.75 22.00	52403 66.75 20.33	51757 168.75 22.00	52341 70.75 27.00	53456 116.90 23.67
20711 66.75 2.00	51121 30.75 23.67	52404 66.75 22.00	51758 168.75 23.67	52342 72.75 27.00	53457 116.90 25.33
20712 64.75 2.00	51122 30.75 25.33	52405 66.75 23.67	51759 168.75 25.33		53458 118.83 3.67
20713 62.75 2.00					
	51123 1.50 3.67		51760 170.75 3.67	52344 76.75 27.00	53459 118.83 5.33
20714 60.75 1.00	51124 1.50 5.33	52407 68.75 3.67	51761 170.75 5.33	52345 78.75 27.00	53460 118.83 7.00
20715 62.75 1.00	51125 1.50 7.00	52408 68.75 5.33	51762 170.75 7.00	52346 80.75 27.00	53461 118.83 8.67
20716 64.75 1.00	51126 1.50 8.67	52409 68.75 7.00	51763 170.75 8.67	52347 82.75 27.00	53462 118.83 10.33
20717 66.75 1.00	51127 1.50 10.33	52410 68.75 8.67	51764 170.75 10.33	52348 84.75 27.00	53463 118.83 12.00
20718 68.75 1.00	51128 1.50 12.00	52411 68.75 10.33	51765 170.75 12.00	52349 86.75 27.00	53464 118.83 13.67
20719 70.75 1.00	51129 1.50 13.67	52412 68.75 12.00	51766 170.75 13.67	52350 88.75 27.00	53465 118.83 15.33
20720 72.75 1.00	51130 1.50 15.33	52413 68.75 13.67	51767 170.75 15.33	52351 60.75 3.67	53466 118.83 17.00
20721 74.75 1.00	51131 1.50 17.00	52414 68.75 15.33	51768 170.75 17.00	52352 60.75 5.33	53467 118.83 18.67
20722 76.75 1.00	51132 1.50 18.67	52415 68.75 17.00	51769 170.75 18.67	52353 60.75 7.00	53468 118.83 20.33
20723 78.75 1.00	51133 1.50 20.33	52416 68.75 18.67	51770 170.75 20.33	52354 60.75 8.67	53469 118.83 22.00
20724 80.75 1.00	51134 1.50 22.00	52417 68.75 20.33	51771 170,75 22.00	52355 60.75 10.33	53470 118.83 23.67
20725 82.75 1.00	51135 1.50 23.67	52418 68.75 22.00	51772 170.75 23.67	52356 60.75 12.00	53471 118.83 25.33
20726 84.75 1.00	51136 1.50 25.33	52419 68.75 23.67	51773 170.75 25.33	52357 60.75 13.67	53472 150.75 29.00
20727 86.75 1.00	51137 3.45 3.67	52420 68.75 25.33	51774 172.75 3.67	52358 60.75 15.33	53473 150.75 28.00
20728 88.75 1.00	51138 3.45 5.33	52421 70.75 3.67	51775 172.75 5.33	52359 60.75 17.00	53474 120.75 29.00
20729 210.75 0.00	51139 3.45 7.00	52422 70.75 5.33	51776 172.75 7.00	52360 60.75 18.67	53475 122.75 29.00
20730 203.35 0.00	51140 3.45 8.67	52423 70.75 7.00	51777 172.75 8.67	52361 60.75 20.33	53476 124.75 29.00
20730 205.30 0.00	51140 3.45 5.67		51778 172.75 10.33		
				52362 60.75 22.00	53477 126.75 29.00
20732 207.05 0.00	51142 3.45 12.00	52425 70.75 10.33	51779 172.75 12.00	52363 60.75 23.67	53478 128.75 29.00
20733 208.90 0.00	51143 3.45 13.67	52426 70.75 12.00	51780 172.75 13.67	52364 60.75 25.33	53479 130.75 29.00
20734 210.75 2.00	51144 3.45 15.33	52427 70.75 13.67	51781 172.75 15.33	52365 62.75 3.67	53480 132.75 29.00
20735 210.75 1.00	51145 3.45 17.00	52428 70.75 15.33	51782 172.75 17.00	52366 62.75 5.33	53481 134.75 29.00
20736 203.35 2.00	51146 3.45 18.67	52429 70.75 17.00	51783 172.75 18.67	52367 62.75 7.00	53482 136.75 29.00
20737 205.20 2.00	51147 3.45 20.33	52430 70.75 18.67	51784 172.75 20.33	52368 62.75 8.67	53483 138.75 29.00
20738 207.05 2.00	51148 3.45 22.00	52431 70.75 20.33	51785 172.75 22.00	52369 62.75 10.33	53484 140.75 29.00
20739 208.90 2.00	51149 3.45 23.67	52432 70.75 22.00	51786 172.75 23.67	52370 62.75 12.00	53485 142.75 29.00
20740 203.35 1.00	51150 3.45 25.33	52433 70.75 23.67	51787 172.75 25.33	52371 62.75 13.67	53486 144.75 29.00
20741 205.20 1.00	51151 5.40 3.67	52434 70.75 25.33	51788 174.75 3.67	52372 62.75 15.33	53487 146.75 29.00
20742 207.05 1.00	51152 5.40 5.33	52435 72.75 3.67	51789 174.75 5.33	52373 62.75 17.00	53488 148.75 29.00
20743 208.90 1.00	51153 5.40 7.00	52436 72.75 5.33	51790 174.75 7.00	52374 62.75 18.67	53489 120,75 28.00
20744 120.75 0.00	51154 5.40 8.67	52437 72.75 7.00	51791 174.75 8.67	52375 62.75 20.33	53490 148.75 28.00
20745 150.75 0.00	51155 5.40 10.33	52438 72.75 8.67	51792 174.75 10.33	52376 62.75 22.00	53491 146.75 28.00
20746 122.75 0.00	51156 5.40 12.00	52439 72.75 10.33	51793 174.75 12.00	52377 62.75 23.67	53492 144.75 28.00
20747 124.75 0.00	51157 5.40 13.67				
		52440 72.75 12.00	51794 174.75 13.67	52378 62.75 25.33	53493 142.75 28.00
20748 126.75 0.00	51158 5.40 15.33	52440 72.75 12.00 52441 72.75 13.67	51794 174.75 13.67 51795 174.75 15.33	52378 62.75 25.33 52379 64.75 3.67	53493 142.75 28.00 53494 140.75 28.00
20748 126.75 0.00 20749 128.75 0.00	51158 5.40 15.33 51159 5.40 17.00	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00	52378 62.75 25.33 52379 64.75 3.67 52380 64.75 5.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00	51158 5.40 15.33 51159 5.40 17.00 51160 5.40 18.67	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67	52378 62.75 25.33 52379 64.75 3.67 52360 64.75 5.33 52381 64.75 7.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 136.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00 20751 132.75 0.00	51158 5.40 15.33 51159 5.40 17.00 51160 5.40 18.67 51161 5.40 20.33	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33	52378 62.75 25.33 52379 64.75 3.67 52360 64.75 5.33 52381 64.75 7.00 52913 282.45 3.67	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00 20751 132.75 0.00 20752 134.75 0.00	51158     5.40     15.33       51159     5.40     17.00       51160     5.40     18.67       51161     5.40     20.33       51162     5.40     22.00	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00	52378 62.75 25.33 52379 64.75 3.67 52360 64.75 5.33 52381 64.75 7.00 52913 282.45 3.67 52914 282.45 5.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00 20751 132.75 0.00 20752 134.75 0.00 20753 136.75 0.00	51158     5.40     15.33       51159     5.40     17.00       51160     5.40     18.67       51161     5.40     20.03       51162     5.40     22.00       51163     5.40     23.67	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 23.67	52378 62.75 25.33 52379 64.75 3.67 52380 64.75 5.33 52381 64.75 7.00 52913 282.45 3.67 52914 282.45 5.33 52915 282.45 7.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53499 130.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00 20751 132.75 0.00 20752 134.75 0.00 20753 136.75 0.00 20754 138.75 0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         22.00           51163         5.40         23.67           51164         5.40         25.33	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 23.67 51801 174.75 25.33	52378     62.75     25.33       52379     64.75     3.67       52380     64.75     5.33       52913     282.45     3.67       52914     282.45     5.33       52915     282.45     7.00       52916     282.45     8.67	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00
20748     126.75     0.00       20749     128.75     0.00       20750     130.75     0.00       20751     132.75     0.00       20752     134.75     0.00       20753     136.75     0.00       20754     138.75     0.00       20755     140.75     0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67 52448 72.75 25.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 23.67 51801 174.75 25.33 51802 176.75 3.67	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         3.67           52914         282.45         5.33           52915         282.45         7.00           52916         282.45         8.67           52917         282.45         10.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00 20751 132.75 0.00 20752 134.75 0.00 20753 136.75 0.00 20754 138.75 0.00 20755 140.75 0.00 20756 142.75 0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         22.00           51163         5.40         25.33           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67 52448 72.75 25.33 52449 74.75 3.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 25.33 51802 176.75 25.33 51802 176.75 3.67 51803 176.75 5.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52381         64.75         7.00           52913         282.45         3.67           52914         282.45         5.33           52915         282.45         7.00           52916         282.45         8.67           52917         282.45         10.33           52918         282.45         12.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 136.75 28.00 53497 132.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00
20748     126.75     0.00       20749     128.75     0.00       20750     130.75     0.00       20751     132.75     0.00       20752     134.75     0.00       20753     136.75     0.00       20754     138.75     0.00       20755     140.75     0.00       20756     142.75     0.00       20757     144.75     0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         22.00           51163         5.40         25.33           51164         5.40         25.33           51165         7.35         3.67           51167         7.35         7.00	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67 52448 72.75 25.33 52449 74.75 3.67 52450 74.75 5.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 20.67 51800 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 7.00	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         3.67           52914         282.45         5.33           52915         282.45         7.00           52916         282.45         8.67           52917         282.45         10.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00
20748 126.75 0.00 20749 128.75 0.00 20750 130.75 0.00 20751 132.75 0.00 20752 134.75 0.00 20753 136.75 0.00 20754 138.75 0.00 20755 140.75 0.00 20756 142.75 0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         22.00           51163         5.40         25.33           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67 52448 72.75 25.33 52449 74.75 3.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 25.33 51802 176.75 25.33 51802 176.75 3.67 51803 176.75 5.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52381         64.75         7.00           52913         282.45         3.67           52914         282.45         5.33           52915         282.45         7.00           52916         282.45         8.67           52917         282.45         10.33           52918         282.45         12.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 136.75 28.00 53497 132.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20757         144.75         0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         22.00           51163         5.40         25.33           51164         5.40         25.33           51165         7.35         3.67           51167         7.35         7.00	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67 52448 72.75 25.33 52449 74.75 3.67 52450 74.75 5.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 20.67 51800 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 7.00	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.03           52381         64.75         7.00           52913         282.45         5.33           52915         282.45         7.00           52916         282.45         8.67           52917         282.45         10.33           52918         282.45         10.33           52919         282.45         10.30           52919         282.45         13.67	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 128.75 28.00 53502 124.75 28.00 53503 122.75 28.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         144.75         0.00           20757         144.75         0.00           20758         146.75         0.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         22.00           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         7.00           51168         7.35         8.67	52440 72.75 12.00 52441 72.75 13.67 52442 72.75 15.33 52443 72.75 17.00 52444 72.75 18.67 52445 72.75 20.33 52446 72.75 22.00 52447 72.75 23.67 52448 72.75 25.33 52449 74.75 3.67 52450 74.75 5.33 52451 74.75 7.00	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.06 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 20.67 51800 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 7.00 51805 176.75 8.67	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         3.67           52914         282.45         5.33           52915         282.45         7.00           52916         282.45         10.33           52917         282.45         10.33           52918         282.45         12.00           52919         282.45         13.67           52919         282.45         15.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00 53503 122.75 28.00 53504 180.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20757         144.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20760         150.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         20.33           51162         5.40         22.00           51163         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         5.33           51168         7.35         8.67           51169         7.35         10.33	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         18.67           52445         72.75         20.33           52446         72.75         22.00           52447         72.75         23.67           52448         72.75         25.33           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         8.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 23.67 51801 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 7.00 51805 176.75 8.67 51806 176.75 10.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         7.00           52914         282.45         7.00           52916         282.45         10.33           52917         282.45         10.33           52918         282.45         12.00           52919         282.45         13.67           52919         282.45         15.33           52920         282.45         15.33           52921         282.45         17.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00 53503 122.75 28.00 53504 180.75 29.00 53505 180.75 29.00 53506 152.75 29.00
20748 126.75         0.00           20749 128.75         0.00           20750 130.75         0.00           20751 132.75         0.00           20752 134.75         0.00           20753 136.75         0.00           20754 138.75         0.00           20755 140.75         0.00           20756 142.75         0.00           20757 144.75         0.00           20758 146.75         0.00           20759 148.75         0.00           20750 150.75         2.00           20761 150.75         1.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         8.67           51168         7.35         10.33           51170         7.35         12.00           51171         7.35         13.67	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         17.00           52444         72.75         20.33           52446         72.75         22.00           52447         72.75         23.67           52448         72.75         25.33           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         8.67           52453         74.75         10.33           52454         74.75         10.03	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.03 51799 174.75 22.00 51800 174.75 25.33 51802 176.75 3.67 51803 176.75 3.67 51804 176.75 7.00 51805 176.75 8.67 51806 176.75 10.33 51807 176.75 10.30 51808 176.75 13.67	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         7.00           52914         282.45         7.00           52915         282.45         7.00           52916         282.45         7.00           52917         282.45         10.33           52918         282.45         12.00           52919         282.45         13.67           52920         282.45         15.33           52921         282.45         17.00           52922         282.45         17.00           52922         282.45         18.67           52923         282.45         12.03	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53498 132.75 28.00 53500 128.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00 53504 180.75 28.00 53504 180.75 29.00 53505 180.75 28.00 53506 152.75 29.00 53506 152.75 29.00 53507 154.75 29.00
20748 126.75         0.00           20749 128.75         0.00           20750 130.75         0.00           20751 132.75         0.00           20752 134.75         0.00           20753 136.75         0.00           20754 138.75         0.00           20755 140.75         0.00           20756 142.75         0.00           20757 144.75         0.00           20759 148.75         0.00           20759 150.75         2.00           20761 150.75         1.00           20762 120.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         8.67           51168         7.35         8.67           51169         7.35         12.00           51171         7.35         13.67           51172         7.35         15.33	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         17.00           52444         72.75         20.33           52446         72.75         22.00           52447         72.75         23.67           52448         72.75         23.67           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         8.67           52454         74.75         12.00           52455         74.75         12.00           52455         74.75         13.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 20.67 51800 174.75 25.35 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 10.33 51806 176.75 10.33 51806 176.75 10.35 51807 176.75 12.00 51808 176.75 13.67 51809 176.75 15.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         5.33           52914         282.45         7.00           52915         282.45         7.00           52916         282.45         10.33           52917         282.45         10.33           52918         282.45         15.33           52919         282.45         17.00           52910         282.45         17.00           52911         282.45         17.00           52922         282.45         18.67           52923         282.45         20.33           52924         282.45         20.03           52924         282.45         22.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53498 132.75 28.00 53500 128.75 28.00 53501 128.75 28.00 53504 128.75 28.00 53504 180.75 28.00 53504 180.75 28.00 53505 180.75 28.00 53506 152.75 29.00 53506 152.75 29.00 53506 152.75 29.00 53508 156.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20757         144.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20760         150.75         2.00           20761         150.75         1.00           20762         120.75         2.00           20763         148.75         2.00           20763         148.75         2.00           20763         148.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         22.00           51162         5.40         23.67           51163         5.40         25.33           51165         7.35         3.67           51165         7.35         5.33           51167         7.35         7.00           51168         7.35         10.33           51170         7.35         10.33           51171         7.35         15.33           51172         7.35         15.33           51173         7.35         17.00	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         17.00           52444         72.75         18.67           52445         72.75         20.33           52446         72.75         23.67           52448         72.75         23.67           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         8.67           52453         74.75         10.33           52454         74.75         12.00           52455         74.75         13.67           52456         74.75         13.67           52456         74.75         15.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 20.67 51800 174.75 23.67 51801 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 10.33 51806 176.75 10.33 51807 176.75 12.00 51808 176.75 13.67 51809 176.75 13.67 51809 176.75 15.33 51810 176.75 15.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         5.33           52914         282.45         7.00           52916         282.45         10.33           52917         282.45         10.33           52918         282.45         10.33           52919         282.45         13.67           52919         282.45         15.33           52921         282.45         17.00           52922         282.45         18.67           52924         282.45         10.33           52924         282.45         20.33           52924         282.45         20.33           52924         282.45         20.33           52925         282.45         20.36           52925         282.45         20.37           52925         282.45         20.37	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53498 132.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53503 122.75 28.00 53504 180.75 28.00 53504 180.75 28.00 53505 180.75 28.00 53506 152.75 29.00 53506 156.75 29.00 53506 156.75 29.00 53508 156.75 29.00 53509 154.75 29.00 53509 158.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20757         144.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20760         150.75         2.00           20761         150.75         1.00           20762         120.75         2.00           20763         148.75         2.00           20763         148.75         2.00           20763         148.75         2.00           20764         146.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51163         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         5.33           51169         7.35         10.33           51170         7.35         12.00           51171         7.35         13.67           51172         7.35         17.00           51173         7.35         17.00           51174         7.35         18.67	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         17.00           52444         72.75         18.67           52445         72.75         20.33           52446         72.75         23.67           52448         72.75         25.33           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         8.67           52453         74.75         10.33           52454         74.75         12.00           52455         74.75         15.33           52456         74.75         15.33           52457         74.75         17.00	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 23.67 51801 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 7.00 51805 176.75 10.33 51807 176.75 12.00 51808 176.75 13.67 51809 176.75 13.67 51809 176.75 15.33 51810 176.75 15.33 51810 176.75 15.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52381         64.75         7.00           52912         282.45         5.33           52915         282.45         7.00           52916         282.45         10.33           52917         282.45         10.30           52918         282.45         12.00           52919         282.45         15.33           52921         282.45         17.00           52922         282.45         18.67           52922         282.45         20.33           52924         282.45         23.37           52925         282.45         23.37           52926         282.45         23.67           52927         282.45         23.67           52928         282.45         23.67           52929         282.45         23.67           52926         282.45         23.67           52927         282.45         23.67           52928         282.45         23.367           52929         282.45         25.33 <td>53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00 53504 180.75 28.00 53506 152.75 28.00 53506 152.75 29.00 53506 156.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00</td>	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 126.75 28.00 53502 124.75 28.00 53504 180.75 28.00 53506 152.75 28.00 53506 152.75 29.00 53506 156.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00 53509 158.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20760         150.75         2.00           20761         150.75         1.00           20762         120.75         2.00           20763         148.75         2.00           20764         146.75         2.00           20765         144.75         2.00           20764         146.75         2.00           20765         144.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         8.67           51168         7.35         8.67           51169         7.35         10.33           51170         7.35         13.67           51171         7.35         13.67           51172         7.35         15.30           51173         7.35         17.00           51174         7.35         18.67           51175         7.35         20.33	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         18.67           52445         72.75         18.67           52445         72.75         20.33           52446         72.75         23.67           52448         72.75         25.33           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         8.67           52453         74.75         10.33           52454         74.75         13.67           52455         74.75         15.33           52456         74.75         15.33           52457         74.75         17.00           52458         74.75         17.00           52458         74.75         18.67	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 18.67 51798 174.75 20.33 51799 174.75 22.00 51800 174.75 23.67 51801 174.75 25.33 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 7.00 51805 176.75 10.33 51807 176.75 12.00 51808 176.75 13.67 51809 176.75 15.33 51810 176.75 15.33 51810 176.75 15.33 51810 176.75 15.33 51810 176.75 15.33 51810 176.75 15.33	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         7.00           52913         282.45         3.67           52914         282.45         7.00           52916         282.45         7.00           52917         282.45         10.33           52918         282.45         12.00           52919         282.45         13.67           52920         282.45         15.33           52921         282.45         17.00           52922         282.45         18.67           52923         282.45         20.33           52924         282.45         22.00           52925         282.45         25.33           52926         282.45         25.33           52927         282.45         25.33           52928         282.45         25.33           52927         282.45         25.33           52927         282.45         25.33           52927         284.40         3.67	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53497 134.75 28.00 53499 130.75 28.00 53500 128.75 28.00 53501 128.75 28.00 53502 124.75 28.00 53502 124.75 28.00 53503 122.75 28.00 53504 180.75 28.00 53505 180.75 29.00 53506 152.75 29.00 53507 154.75 29.00 53508 156.75 29.00 53509 158.75 29.00 53511 160.75 29.00 53511 160.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20760         150.75         2.00           20761         150.75         1.00           20762         120.75         2.00           20763         148.75         2.00           20764         146.75         2.00           20763         144.75         2.00           20765         144.75         2.00           20765         144.75         2.00           20765         144.75         2.00           20766         142.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         7.00           51168         7.35         10.33           51170         7.35         12.00           51171         7.35         15.33           51172         7.35         15.33           51173         7.35         15.33           51174         7.35         18.67           51175         7.35         10.33           51176         7.35         10.33	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         17.00           52444         72.75         18.67           52445         72.75         20.33           52446         72.75         22.00           52447         72.75         23.67           52448         72.75         25.33           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         5.03           52452         74.75         10.33           52453         74.75         10.33           52454         74.75         13.67           52455         74.75         15.33           52457         74.75         15.33           52458         74.75         15.33           52457         74.75         15.33           52458         74.75         15.33           52459         74.75         18.67           52459         74.75         18.67           52459         74.75         18.67           52459         74.75         20.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 18.67 51798 174.75 20.03 51799 174.75 22.00 51800 174.75 25.33 51802 176.75 8.67 51805 176.75 8.67 51806 176.75 10.33 51807 176.75 10.33 51807 176.75 10.33 51807 176.75 10.33 51807 176.75 10.33 51807 176.75 10.33 51810 176.75 17.00 51810 176.75 17.00 51808 176.75 10.33 51810 176.75 17.00 51812 176.75 18.67 51812 176.75 20.03 51813 176.75 20.00	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         5.33           52914         282.45         7.00           52915         282.45         7.00           52916         282.45         10.33           52917         282.45         12.00           52918         282.45         13.67           52920         282.45         15.33           52921         282.45         17.00           52922         282.45         17.00           52921         282.45         17.00           52922         282.45         17.00           52924         282.45         17.00           52925         282.45         20.33           52924         282.45         22.00           52925         282.45         23.67           52926         282.45         23.67           52927         284.40         3.67           52928         284.40         3.67           52927         284.40         5.33           52928         284.40         5.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53498 132.75 28.00 53500 128.75 28.00 53501 128.75 28.00 53504 180.75 28.00 53504 180.75 28.00 53504 180.75 29.00 53505 180.75 29.00 53505 180.75 29.00 53506 152.75 29.00 53509 158.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20757         144.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20761         150.75         1.00           20762         120.75         2.00           20763         148.75         2.00           20764         146.75         2.00           20765         144.75         2.00           20763         142.75         2.00           20764         146.75         2.00           20765         142.75         2.00           20766         142.75         2.00           20767         140.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         22.00           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         7.00           51168         7.35         8.67           51169         7.35         10.33           51170         7.35         13.67           51171         7.35         13.67           51172         7.35         15.33           51173         7.35         17.00           51174         7.35         18.67           51175         7.35         20.03           51176         7.35         22.00           51177         7.35         22.00           51177         7.35         22.07           51177         7.35         23.67	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         15.33           52443         72.75         17.00           52444         72.75         20.33           52446         72.75         22.00           52447         72.75         23.67           52448         72.75         23.67           52449         74.75         25.33           52450         74.75         5.33           52451         74.75         7.00           52452         74.75         12.00           52453         74.75         12.00           52454         74.75         15.33           52457         74.75         15.33           52457         74.75         15.33           52457         74.75         15.33           52457         74.75         16.67           52458         74.75         18.67           52459         74.75         20.33           52460         74.75         20.00	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.33 51799 174.75 20.67 51800 174.75 25.35 51802 176.75 3.67 51803 176.75 5.33 51804 176.75 10.33 51806 176.75 10.33 51807 176.75 12.00 51808 176.75 12.00 51808 176.75 12.00 51809 176.75 12.00 51809 176.75 15.33 51810 176.75 18.67 51812 176.75 18.67 51812 176.75 20.33 51813 176.75 20.33 51813 176.75 22.00 51814 176.75 23.67	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         7.00           52913         282.45         5.33           52914         282.45         7.00           52915         282.45         7.00           52916         282.45         10.33           52917         282.45         10.33           52918         282.45         15.07           52919         282.45         15.07           52920         282.45         17.00           52921         282.45         17.00           52922         282.45         12.00           52921         282.45         17.00           52922         282.45         17.00           52922         282.45         20.33           52924         282.45         20.00           52925         282.45         23.67           52926         282.45         25.33           52927         284.40         3.67           52928         284.40         5.33           52929         284.40         5.33           52929         284.40         7.00	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53498 132.75 28.00 53499 130.75 28.00 53501 128.75 28.00 53502 122.75 28.00 53504 180.75 28.00 53505 180.75 28.00 53506 152.75 29.00 53506 152.75 29.00 53508 156.75 29.00 53509 158.75 29.00 53510 160.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00
20748         126.75         0.00           20749         128.75         0.00           20750         130.75         0.00           20751         132.75         0.00           20752         134.75         0.00           20753         136.75         0.00           20754         138.75         0.00           20755         140.75         0.00           20756         142.75         0.00           20758         146.75         0.00           20759         148.75         0.00           20760         150.75         2.00           20761         150.75         1.00           20762         120.75         2.00           20763         148.75         2.00           20764         146.75         2.00           20763         144.75         2.00           20765         144.75         2.00           20765         144.75         2.00           20765         144.75         2.00           20766         142.75         2.00	51158         5.40         15.33           51159         5.40         17.00           51160         5.40         18.67           51161         5.40         20.33           51162         5.40         23.67           51164         5.40         25.33           51165         7.35         3.67           51166         7.35         5.33           51167         7.35         7.00           51168         7.35         10.33           51170         7.35         12.00           51171         7.35         15.33           51172         7.35         15.33           51173         7.35         15.33           51174         7.35         18.67           51175         7.35         10.33           51176         7.35         10.33	52440         72.75         12.00           52441         72.75         13.67           52442         72.75         17.00           52444         72.75         18.67           52445         72.75         20.33           52446         72.75         22.00           52447         72.75         23.67           52448         72.75         25.33           52449         74.75         3.67           52450         74.75         5.33           52451         74.75         5.03           52452         74.75         10.33           52453         74.75         10.33           52454         74.75         13.67           52455         74.75         15.33           52457         74.75         15.33           52458         74.75         15.33           52457         74.75         15.33           52458         74.75         15.33           52459         74.75         18.67           52459         74.75         18.67           52459         74.75         18.67           52459         74.75         20.33	51794 174.75 13.67 51795 174.75 15.33 51796 174.75 17.00 51797 174.75 18.67 51798 174.75 20.03 51799 174.75 22.00 51800 174.75 25.05 51801 174.75 25.33 51802 176.75 3.67 51803 176.75 7.00 51805 176.75 10.33 51807 176.75 10.33 51808 176.75 13.67 51808 176.75 13.67 51809 176.75 15.03 51810 176.75 17.00 51810 176.75 17.00 51811 176.75 18.67 51812 176.75 20.03 51813 176.75 20.03	52378         62.75         25.33           52379         64.75         3.67           52380         64.75         5.33           52913         282.45         5.33           52914         282.45         7.00           52915         282.45         7.00           52916         282.45         10.33           52917         282.45         12.00           52918         282.45         13.67           52920         282.45         15.33           52921         282.45         17.00           52922         282.45         17.00           52921         282.45         17.00           52922         282.45         17.00           52924         282.45         17.00           52925         282.45         20.33           52924         282.45         22.00           52925         282.45         23.67           52926         282.45         23.67           52927         284.40         3.67           52928         284.40         3.67           52927         284.40         5.33           52928         284.40         5.33	53493 142.75 28.00 53494 140.75 28.00 53495 138.75 28.00 53496 138.75 28.00 53498 132.75 28.00 53500 128.75 28.00 53501 128.75 28.00 53504 180.75 28.00 53504 180.75 28.00 53504 180.75 29.00 53505 180.75 29.00 53505 180.75 29.00 53506 152.75 29.00 53509 158.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00 53511 162.75 29.00

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20769 136.75 2.00	51179 9.30 3.67	52462 74.75 25.33	51816 178.75 3.67	52931 284.40 10.33	53515 170.75 29.00
20770 134.75 2.00	51180 9.30 5.33	52463 76.75 3.67	51817 178.75 5.33	52932 284.40 12.00	53516 172.75 29.00
20771 132.75 2.00	51181 9.30 7.00	52464 76.75 5.33	51818 178.75 7.00	52933 284.40 13.67	53517 174.75 29.00
20772 130.75 2.00	51182 9.30 8.67	52465 76.75 7.00	51819 178.75 8.67	52934 284.40 15.33	53518 176.75 29.00
20773 128.75 2.00	51183 9.30 10.33	52466 76.75 8.67	51820 178.75 10.33	52935 284.40 17.00	53519 178.75 29.00
20774 126.75 2.00 20775 124.75 2.00	51184 9.30 12.00	52467 76.75 10.33	51821 178.75 12.00	52936 284.40 18.67	53520 178.75 28.00
20775 124.75 2.00 20776 122.75 2.00	51185 9.30 13.67 51186 9.30 15.33	52468 76.75 12.00 52469 76.75 13.67	51822 178.75 13.67 51823 178.75 15.33	52937 284.40 20.33 52938 284.40 22.00	53521 176.75 28.00 53522 174.75 28.00
20777 120.75 1.00	51187 9.30 17.00	52470 76.75 15.33	51824 178.75 17.00	52939 284.40 23.67	53523 172.75 28.00
20778 122.75 1.00	51188 9.30 18.67	52471 76.75 17.00	51825 178.75 18.67	52940 284.40 25.33	53524 170.75 28.00
20779 124.75 1.00	51189 9.30 20.33	52472 76.75 18.67	51826 178.75 20.33	52941 286.35 3.67	53525 168.75 28.00
20780 126.75 1.00	51190 9.30 22.00	52473 76.75 20.33	51827 178.75 22.00	52942 286.35 5.33	53526 166.75 28.00
20781 128.75 1.00	51191 9.30 23.67	52474 76.75 22.00	51828 178.75 23.67	52943 286.35 7.00	53527 164.75 28.00
20782 130.75 1.00	51192 9.30 25.33	52475 76.75 23.67	51829 178.75 25.33	52944 286.35 8.67	53528 162.75 28.00
20783 132.75 1.00	51193 11.25 3.67	52476 76.75 25.33	51830 200.00 27.00	52945 286.35 10.33	53529 160.75 28.00
20784 134.75 1.00	51194 11.25 5.33	52477 78.75 3.67	51831 200.00 3.67	52946 286.35 12.00	53530 158.75 28.00
20785 136.75 1.00 20786 138.75 1.00	51195 11.25 7.00 51196 11.25 8.67	52478 78.75 5.33 52479 78.75 7.00	51832 200.00 5.33 51833 200.00 7.00	52947 286.35 13.67	53531 156.75 28.00
20787 140.75 1.00	51196 11.25 6.67	52480 78.75 8.67	51834 200.00 8.67	52948 286.35 15.33 52949 286.35 17.00	53532 154.75 28.00 53533 152.75 28.00
20788 142.75 1.00	51198 11.25 12.00	52481 78.75 10.33	51835 200.00 10.33	52950 286.35 18.67	53534 100.00 3.67
20789 144.75 1.00	51199 11.25 13.67	52482 78.75 12.00	51836 200.00 12.00	52951 286.35 20.33	53535 100.00 5.33
20790 148.75 1.00	51200 11.25 15.33	52483 78.75 13.67	51837 200.00 13.67	52952 286.35 22.00	53536 100.00 7.00
20791 148.75 1.00	51201 11.25 17.00	52484 78.75 15.33	51838 200.00 15.33	52953 286.35 23.67	53537 100.00 8.67
20792 150.75 0.00	51202 11.25 18.67	52485 78.75 17.00	51839 200.00 17.00	52954 286.35 25.33	53538 100.00 10.33
20793 180.75 0.00	51203 11.25 20.33	52486 78.75 18.67	51840 200.00 18.67	52955 288.30 3.67	53539 100.00 12.00
20794 152.75 0.00	51204 11.25 22.00	52487 78.75 20.33	51841 200.00 20.33	52956 288.30 5.33	53540 100.00 13.67
20795 154.75 0.00	51205 11.25 23.67 51206 11.25 25.33	52488 78.75 22.00 52488 78.75 22.00	51842 200.00 22.00	52957 288.30 7.00	53541 100.00 15.33
20796 156.75 0.00 20797 158.75 0.00	51206 11.25 25.33 51207 13.20 3.67	52489 78.75 23.67 52490 78.75 25.33	51843 200.00 23.67 51844 200.00 25.33	52958 288.30 8.67 52959 288.30 10.33	53542 100.00 17.00 53543 100.00 18.67
20798 160.75 0.00	51208 13.20 5.33	52491 80.75 3.67	51845 182.68 27.00	52960 288.30 12.00	53544 100.00 20.33
20799 162.75 0.00	51209 13.20 7.00	52492 80.75 5.33	51846 184.60 27.00	52961 288.30 13.67	53545 100.00 22.00
20800 164.75 0.00	51210 13.20 8.67	52493 80.75 7.00	51847 186.53 27.00	52962 288.30 15.33	53546 100.00 23.67
20801 168.75 0.00	51211 13.20 10.33	52494 80.75 8.67	51848 188.45 27.00	52963 288.30 17.00	53547 100.00 25.33
20802 168.75 0.00	51212 13.20 12.00	52495 80.75 10.33	51849 190.38 27.00	52964 288.30 18.67	53548 90.75 3.67
20803 170.75 0.00	51213 13.20 13.67	52496 80.75 12.00	51850 192.30 27.00	52965 288.30 20.33	53549 90.75 5.33
20804 172.75 0.00	51214 13.20 15.33	52497 80.75 13.67	51851 194.23 27.00	52966 288.30 22.00	53550 90.75 7.00
20805 174.75 0.00 20806 176.75 0.00	51215 13.20 17.00 51216 13.20 18.67	52498 80.75 15.33 52499 80.75 17.00	51852 196.15 27.00 51853 198.08 27.00	52967 288.30 23.67 52968 288.30 25.33	53551 90.75 8.67 53552 90.75 10.33
20807 178.75 0.00	51217 13.20 20.33	52500 80.75 18.67	51854 180.75 3.67	52969 290.25 3.67	53553 90.75 12.00
20808 180.75 2.00	51218 13.20 22.00	52501 80.75 20.33	51855 180.75 5.33	52970 290.25 5.33	53554 90.75 13.67
20809 180.75 1.00	51219 13.20 23.67	52502 80.75 22.00	51856 180.75 7.00	52971 290.25 7.00	53555 90.75 15.33
20810 150.75 2.00	51220 13.20 25.33	52503 80.75 23.67	51857 180.75 8.67	52972 290.25 8.67	53556 90.75 17.00
20811 178.75 2.00	51221 15.15 3.67	52504 80.75 25.33	51858 180.75 10.33	52973 290.25 10.33	53557 90.75 18.67
20812 176.75 2.00	51222 15.15 5.33	52505 82.75 3.67	51859 180.75 12.00	52974 290.25 12.00	53558 90.75 20.33
20813 174.75 2.00	51223 15.15 7.00	52506 82.75 5.33	51860 180.75 13.67	52975 290.25 13.67	53559 90.75 22.00
20814 172.75 2.00 20815 170.75 2.00	51224 15.15 8.67 51225 15.15 10.33	52507 82.75 7.00 52508 82.75 8.67	51861 180.75 15.33 51862 180.75 17.00	52976 290.25 15.33 52977 290.25 17.00	53560 90.75 23.67 53561 90.75 25.33
20816 168.75 2.00	51226 15.15 12.00	52509 82.75 10.33	51863 180.75 18.67	52978 290.25 18.67	53561 90.75 25.33 53562 92.60 3.67
20817 166.75 2.00	51227 15.15 13.67	52510 82.75 12.00	51864 180.75 20.33	52979 290.25 20.33	53563 92.60 5.33
20818 164.75 2.00	51228 15.15 15.33	52511 82.75 13.67	51865 180.75 22.00	52980 290.25 22.00	53564 92.60 7.00
20819 162.75 2.00	51229 15.15 17.00	52512 82.75 15.33	51866 180.75 23.67	52981 290.25 23.67	53565 92.60 8.67
20820 160.75 2.00	51230 15.15 18.67	52513 82.75 17.00	51867 180.75 25.33	52982 290.25 25.33	53566 92.60 10.33
20821 158.75 2.00	51231 15.15 20.33	52514 82.75 18.67	51868 182.68 3.67	52983 292,20 3,67	53567 92.60 12.00
20822 156.75 2.00	51232 15.15 22.00	52515 82.75 20.33	51869 182.68 5.33	52984 292.20 5.33	53568 92.60 13.67
20823 154.75 2.00 20824 152.75 2.00	51233 15.15 23.67 51234 15.15 25.33	52516 82.75 22.00 52517 82.75 23.67	51870 182.68 7.00	52985 292,20 7.00	53569 92.60 15.33
20825 150.75 1.00	51235 17.10 3.67	52518 82.75 25.33	51871 182.68 8.67 51872 182.68 10.33	52986 292,20 8,67 52987 292,20 10,33	53570 92.60 17.00 53571 92.60 18.67
20826 152.75 1.00	51236 17.10 5.33	52519 84.75 3.67	51873 182.68 12.00	52988 292.20 12.00	53572 92.60 20.33
20827 154.75 1.00	51237 17.10 7.00	52520 84.75 5.33	51874 182.68 13.67	52989 292.20 13.67	53573 92.60 22.00
	51238 17.10 8.67	52521 84.75 7.00	51875 182.68 15.33	52990 292.20 15.33	53574 92.60 23.67
20828 156.75 1.00	01600 17,10 0.01				
20828 156.75 1.00 20829 158.75 1.00	51239 17.10 10.33	52522 84.75 8.67	51876 182.68 17.00	52991 292.20 17.00	53575 92.60 25.33
20829 158.75 1.00 20830 160.75 1.00	51239 17.10 10.33 51240 17.10 12.00	52522 84.75 8.67 52523 84.75 10.33		52991 292.20 17.00 52992 292.20 18.67	53575 92.60 25.33 53576 94.45 3.67
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33	53576 94.45 3.67 53577 94.45 5.33
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00 52525 84.75 13.67	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00 52525 84.75 13.67 52526 84.75 15.33	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00 51880 182.68 23.67	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 23.67	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 8.67
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00 52525 84.75 15.33 52526 84.75 15.33 52527 84.75 17.00	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00 51880 182.68 23.67 51881 182.68 25.33	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 23.67 52996 292.20 25.33	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 8.67 53580 94.45 10.33
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20835 170.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67 51245 17.10 20.33	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00 52525 84.75 13.67 52526 84.75 15.33 52527 84.75 17.00 52528 84.75 18.67	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 23.67 52996 292.20 25.33 52997 294.15 3.67	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 8.67 53580 94.45 10.33 53581 94.45 12.00
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20835 170.75 1.00 20836 172.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67 51245 17.10 20.33 51246 17.10 22.00	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00 52525 84.75 13.67 52526 84.75 15.33 52527 84.75 17.00 52528 84.75 18.67 52529 84.75 20.33	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 5.33	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 23.67 52996 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53581 94.45 12.00 53582 94.45 13.67
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20835 170.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67 51245 17.10 20.33	52522 84.75 8.67 52523 84.75 10.33 52524 84.75 12.00 52525 84.75 13.67 52526 84.75 15.33 52527 84.75 17.00 52528 84.75 18.67	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 23.67 52996 292.20 25.33 52997 294.15 3.67	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53581 94.45 12.00 53582 94.45 13.67 53583 94.45 15.33
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 168.75 1.00 20834 168.75 1.00 20835 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67 51245 17.10 20.33 51246 17.10 22.00 51247 17.10 23.67	52522 84.75 10.33 52524 84.75 12.00 52525 84.75 13.67 52526 84.75 15.33 52527 84.75 17.00 52528 84.75 18.67 52529 84.75 20.33 52530 84.75 22.00	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 23.00 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 7.00	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53581 94.45 12.00 53582 94.45 13.67 53583 94.45 15.33
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20835 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00 20838 176.75 1.00 20839 178.75 1.00 20839 178.75 1.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67 51245 17.10 20.33 51246 17.10 22.00 51247 17.10 23.67 51248 17.10 23.67 51249 19.05 3.67 51250 19.05 5.33	52522         84.75         8.67           52523         84.75         10.33           52524         84.75         12.00           52525         84.75         15.33           52527         84.75         17.00           52528         84.75         18.67           52529         84.75         20.33           52530         84.75         23.67           52532         84.75         25.33           52533         86.75         3.67	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 22.00 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 7.00 51885 184.60 8.67 51886 184.60 10.33 51887 184.60 12.00	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 22.30 52994 292.20 23.67 52996 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00 53000 294.15 8.67 53001 294.15 10.33 53002 294.15 12.00	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53580 94.45 10.33 53581 94.45 12.00 53582 94.45 13.67 53583 94.45 15.33 53584 94.45 17.00 53585 94.45 18.67 53586 94.45 20.33
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20835 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00 20838 176.75 1.00 20839 178.75 1.00 20839 178.75 1.00 20840 180.75 0.00 20841 182.68 0.00	51239 17.10 10.33 51240 17.10 12.00 51241 17.10 13.67 51242 17.10 15.33 51243 17.10 17.00 51244 17.10 18.67 51245 17.10 20.33 51246 17.10 22.00 51247 17.10 23.67 51248 17.10 25.33 51249 19.05 3.67 51250 19.05 5.33 51251 19.05 7.00	52522         84.75         8.67           52523         84.75         10.33           52524         84.75         12.00           52525         84.75         15.36           52526         84.75         15.33           52527         84.75         17.00           52528         84.75         20.33           52529         84.75         20.33           52530         84.75         22.00           52531         84.75         25.33           52533         86.75         25.33           52534         86.75         5.33	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 22.03 51879 182.68 22.00 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 5.33 51884 184.60 7.00 51885 184.60 8.67 51886 184.60 10.33 51887 184.60 12.00 51888 184.60 13.67	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 25.33 52996 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00 53000 294.15 8.67 53001 294.15 10.33 53002 294.15 12.00 53003 294.15 13.67	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53581 94.45 12.00 53582 94.45 13.67 53583 94.45 15.33 53584 94.45 17.00 53585 94.45 18.67 53586 94.45 20.33 53587 94.45 22.00
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20836 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00 20838 176.75 1.00 20839 178.75 1.00 20840 180.75 0.00 20841 182.68 0.00 20842 184.60 0.00	51239         17.10         10.33           51240         17.10         12.00           51241         17.10         13.67           51242         17.10         15.33           51243         17.10         17.00           51244         17.10         18.67           51245         17.10         20.33           51246         17.10         23.67           51247         17.10         25.33           51248         17.10         25.33           51249         19.05         3.67           51250         19.05         5.33           51251         19.05         7.00           51252         19.05         8.67	52522         84.75         8.67           52523         84.75         10.33           52524         84.75         12.00           52525         84.75         15.33           52527         84.75         17.00           52528         84.75         18.67           52529         84.75         20.33           52530         84.75         22.00           52531         84.75         23.67           52532         84.75         25.33           52533         86.75         3.67           52534         86.75         5.33           52535         86.75         7.00	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 22.03 51879 182.68 23.67 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 5.33 51884 184.60 7.00 51885 184.60 8.67 51886 184.60 10.33 51887 184.60 12.00 51888 184.60 13.67 51889 184.60 15.33	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 23.67 52995 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00 53000 294.15 8.67 53001 294.15 10.33 53002 294.15 12.00 53003 294.15 13.67 53004 294.15 15.33	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53581 94.45 12.00 53582 94.45 12.00 53582 94.45 13.67 53583 94.45 17.00 53584 94.45 17.00 53585 94.45 20.33 53587 94.45 22.00 63588 94.45 23.67
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20836 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00 20838 176.75 1.00 20839 179.75 1.00 20840 180.75 0.00 20841 182.68 0.00 20842 184.60 0.00 20843 186.53 0.00	51239         17.10         10.33           51240         17.10         12.00           51241         17.10         13.67           51242         17.10         15.33           51243         17.10         17.00           51244         17.10         18.67           51245         17.10         20.33           51246         17.10         23.67           51248         17.10         25.33           51249         19.05         3.67           51250         19.05         5.33           51251         19.05         7.00           51252         19.05         8.67           51253         19.05         10.33	52522         84.75         8.67           52523         84.75         10.33           52524         84.75         12.00           52525         84.75         15.33           52527         84.75         17.00           52528         84.75         18.67           52529         84.75         20.33           52530         84.75         22.00           52531         84.75         25.33           52532         84.75         25.33           52533         86.75         3.67           52534         86.75         5.33           52535         86.75         7.00           52536         86.75         8.67           52536         86.75         8.67	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 23.67 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 7.00 51885 184.60 10.33 51887 184.60 10.35 51887 184.60 12.00 51888 184.60 13.67 51889 184.60 15.33 51890 184.60 17.00	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00 53000 294.15 8.67 53001 294.15 10.33 53002 294.15 12.00 53003 294.15 13.67 53004 294.15 15.33 53005 294.15 15.33	53576         94.45         3.67           53577         94.45         5.33           53578         94.45         7.00           53579         94.45         10.33           53580         94.45         12.00           53582         94.45         13.67           53583         94.45         15.33           53584         94.45         17.00           53585         94.45         18.67           53586         94.45         20.33           53587         94.45         22.00           53588         94.45         23.67           53589         94.45         25.33
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20835 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00 20838 176.75 1.00 20839 178.75 1.00 20840 180.75 0.00 20841 182.68 0.00 20842 184.60 0.00 20843 186.53 0.00 20844 188.45 0.00	51239         17.10         10.33           51240         17.10         12.00           51241         17.10         13.67           51242         17.10         15.33           51243         17.10         18.67           51244         17.10         20.33           51245         17.10         22.00           51246         17.10         23.67           51248         17.10         25.33           51249         19.05         3.67           51250         19.05         5.33           51251         19.05         7.00           51252         19.05         8.67           51253         19.05         10.33           51254         19.05         10.33           51254         19.05         10.00	52522         84.75         8.67           52523         84.75         10.33           52524         84.75         12.00           52525         84.75         15.33           52527         84.75         17.00           52528         84.75         18.67           52529         84.75         20.33           52530         84.75         22.00           52531         84.75         23.67           52532         84.75         25.33           52533         86.75         3.67           52534         86.75         5.33           52535         86.75         7.00           52536         86.75         8.67           52537         86.75         10.33	51876 182.68 17.00 51877 182.68 20.33 51879 182.68 22.00 51860 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 5.33 51884 184.60 7.00 51885 184.60 8.67 51886 184.60 10.33 51887 184.60 12.00 51888 184.60 13.67 51889 184.60 15.33 51890 184.60 17.00 51891 184.60 18.67	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 22.30 52994 292.20 22.00 52995 292.20 23.67 52996 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00 53000 294.15 10.33 53002 294.15 12.00 53003 294.15 13.67 53004 294.15 13.67 53004 294.15 17.00 53006 294.15 17.00	53576         94.45         3.67           53577         94.45         5.33           53578         94.45         7.00           53579         94.45         10.33           53580         94.45         12.00           53582         94.45         13.67           53583         94.45         15.33           53584         94.45         17.00           53585         94.45         18.67           53586         94.45         22.00           53589         94.45         23.67           53589         94.45         25.33           53590         96.30         3.67
20829 158.75 1.00 20830 160.75 1.00 20831 162.75 1.00 20832 164.75 1.00 20833 166.75 1.00 20834 168.75 1.00 20836 170.75 1.00 20836 172.75 1.00 20837 174.75 1.00 20838 176.75 1.00 20839 179.75 1.00 20840 180.75 0.00 20841 182.68 0.00 20842 184.60 0.00 20843 186.53 0.00	51239         17.10         10.33           51240         17.10         12.00           51241         17.10         13.67           51242         17.10         15.33           51243         17.10         17.00           51244         17.10         18.67           51245         17.10         20.33           51246         17.10         23.67           51248         17.10         25.33           51249         19.05         3.67           51250         19.05         5.33           51251         19.05         7.00           51252         19.05         8.67           51253         19.05         10.33	52522         84.75         8.67           52523         84.75         10.33           52524         84.75         12.00           52525         84.75         15.33           52527         84.75         17.00           52528         84.75         18.67           52529         84.75         20.33           52530         84.75         22.00           52531         84.75         25.33           52532         84.75         25.33           52533         86.75         3.67           52534         86.75         5.33           52535         86.75         7.00           52536         86.75         8.67           52536         86.75         8.67	51876 182.68 17.00 51877 182.68 18.67 51878 182.68 20.33 51879 182.68 23.67 51880 182.68 23.67 51881 182.68 25.33 51882 184.60 3.67 51883 184.60 7.00 51885 184.60 10.33 51887 184.60 10.35 51887 184.60 12.00 51888 184.60 13.67 51889 184.60 15.33 51890 184.60 17.00	52991 292.20 17.00 52992 292.20 18.67 52993 292.20 20.33 52994 292.20 22.00 52995 292.20 25.33 52997 294.15 3.67 52998 294.15 5.33 52999 294.15 7.00 53000 294.15 8.67 53001 294.15 10.33 53002 294.15 12.00 53003 294.15 13.67 53004 294.15 15.33 53005 294.15 15.33	53576 94.45 3.67 53577 94.45 5.33 53578 94.45 7.00 53579 94.45 10.33 53581 94.45 12.00 53582 94.45 13.67 53583 94.45 13.67 53584 94.45 17.00 53585 94.45 18.67 53586 94.45 20.33 53587 94.45 22.00 53588 94.45 23.67 53589 94.45 25.33

20847 194.23 0.00					
	51257 19.05 17.00	52540 86.75 15.33	51894 184.60 23.67	53009 294.15 23.67	53593 96.30 8.67
20848 196.15 0.00	51258 19.05 18.67	52541 86.75 17.00	51895 184.60 25.33	53010 294.15 25.33	53594 96.30 10.33
20849 198.08 0.00	51259 19.05 20.33	52542 86.75 18.67	51896 186.53 3.67	53011 296.10 3.67	53595 96.30 12.00
20850 180.75 2.00	51260 19.05 22.00	52543 86.75 20.33	51897 186.53 5.33	53012 296.10 5.33	53596 96.30 13.67
20851 198.08 2.00					53597 96.30 15.33
_	51261 19.05 23.67	52544 86.75 22.00			
20852 196.15 2.00	51262 19.05 25.33	52545 86.75 23.67	51899 186.53 8.67	53014 296.10 8.67	53598 96.30 17.00
20853 194.23 2.00	51263 21.00 3.67	52546 86.75 25.33	51900 186.53 10.33	53015 296.10 10.33	53599 96.30 18.67
20854 192.30 2.00	51264 21.00 5.33	52547 88.75 3.67	51901 186.53 12.00	53016 296.10 12.00	53600 96.30 20.33
20855 190.38 2.00	51265 21.00 7.00	52548 88.75 5.33	51902 186.53 13.67	53017 296.10 13.67	53601 96.30 22.00
20856 188.45 2.00	51266 21.00 8.67	52549 88.75 7.00	51903 186.53 15.33	53018 296.10 15.33	53602 96.30 23.67
20857 186.53 2.00	51267 21.00 10.33	52550 88.75 8.67	51904 186.53 17.00	53019 296.10 17.00	53603 96.30 25.33
20858 184.60 2.00	51268 21.00 12.00	52551 88.75 10.33	51905 186.53 18.67	53020 296.10 18.67	53604 98.15 3.67
20859 182.68 2.00	51269 21.00 13.67	52552 88.75 12.00	51906 186.53 20.33	53021 296.10 20.33	53605 98.15 5.33
20860 180.75 1.00				53022 296.10 22.00	
			51907 186.53 22.00		
20861 182.68 1.00	51271 21.00 17.00	52554 88.75 15.33	51908 186.53 23.67	53023 296.10 23.67	53607 98.15 8.67
20862 184.60 1.00	51272 21.00 18.67	52555 88.75 17.00	51909 186.53 25.33	53024 296.10 25.33	53608 98.15 10.33
20863 186.53 1.00	51273 21.00 20.33	52556 88.75 18.67	51910 188.45 3.67	53025 298.05 3.67	53609 98.15 12.00
20864 188.45 1.00	51274 21.00 22.00	52557 88.75 20.33	51911 188.45 5.33	53026 298.05 5.33	53610 98.15 13.67
20865 190.38 1.00	51275 21.00 23.67	52558 88.75 22.00	51912 188.45 7.00	53027 298.05 7.00	53611 98.15 15.33
20866 192.30 1.00	51276 21.00 25.33	52559 88.75 23.67	51913 188.45 8.67	53028 298.05 8.67	53612 98.15 17.00
20867 194.23 1.00	51277 22.95 3.67	52560 88.75 25.33	51914 188.45 10.33	53029 298.05 10.33	53613 98.15 18.67
20868 196.15 1.00	51278 22.95 5.33	52561 270.75 27.00	51915 188.45 12.00	53030 298.05 12.00	53614 98.15 20.33
20869 198.08 1.00	51279 22.95 7.00	52562 270.75 3.67	51916 188.45 13.67	53031 298.05 13.67	
			51917 188.45 15.33		
20870 210.75 0.00	51280 22.95 8.67	52563 270.75 5.33		53032 298.05 15.33	53616 98.15 23.67
20871 240.75 0.00	51281 22.95 10.33	52564 270.75 7.00	51918 188.45 17.00	53033 298.05 17.00	53617 98.15 25.33
20872 212.75 0.00	51282 22.95 12.00	52565 270.75 8.67	51919 188.45 18.67	53034 298.05 18.67	53618 101.50 29.00
20873 214.75 0.00	51283 22.95 13.67	52566 270.75 10.33	51920 188.45 20.33	53035 298.05 20.33	53619 118.83 29.00
20874 216.75 0.00	51284 22.95 15.33	52567 270.75 12.00	51921 188.45 22.00	53036 298.05 22.00	53620 116.90 29.00
20875 218.75 0.00	51285 22.95 17.00	52568 270.75 13.67	51922 188.45 23.67	53037 298.05 23.67	53621 114.98 29.00
20876 220.75 0.00	51286 22.95 18.67	52569 270.75 15.33	51923 188.45 25.33	53038 298.05 25.33	53622 113.05 29.00
20877 222.75 0.00	51287 22.95 20.33	52570 270.75 17.00	51924 190.38 3.67	53039 60.75 29.00	53623 111.13 29.00
20878 224.75 0.00	51288 22.95 22.00	52571 270.75 18.67	51925 190.38 5.33	53040 62.75 29.00	53624 109.20 29.00
20879 226.75 0.00	51289 22.95 23.67	52572 270.75 20.33	51926 190.38 7.00		
					53625 107.28 29.00
20880 228.75 0.00	51290 22.95 25.33	52573 270.75 22.00	51927 190.38 8.67		53626 105.35 29.00
20881 230.75 0.00	51291 24.90 3.67	52574 270.75 23.67	51928 190.38 10.33	53043 68.75 29.00	53627 103.43 29.00
20882 232.75 0.00	51292 24.90 5.33	52575 270.75 25.33	51929 190.38 12.00	53044 70.75 29.00	53628 101.50 28.00
20883 234.75 0.00	51293 24.90 7.00	52576 242.75 27.00	51930 190.38 13.67	53045 72.75 29.00	53629 118.83 28.00
20884 236.75 0.00	51294 24.90 8.67	52577 244.75 27.00	51931 190.38 15.33	53046 74.75 29.00	53630 116.90 28.00
20885 238.75 0.00	51295 24.90 10.33	52578 246.75 27.00	51932 190.38 17.00	53047 76.75 29.00	53631 114.98 28.00
20886 240.75 2.00	51296 24.90 12.00	52579 248.75 27.00	51933 190.38 18.67	53048 78.75 29.00	53632 113.05 28.00
20887 240.75 1.00	51297 24.90 13.67	52580 250.75 27.00	51934 190.38 20.33	53049 80.75 29.00	53633 111.13 28.00
20888 210.75 2.00	51298 24.90 15.33	52581 252.75 27.00	51935 190.38 22.00	53050 82.75 29.00	53634 109.20 28.00
20889 238.75 2.00	51299 24.90 17.00	52582 254.75 27.00	51936 190.38 23.67	53051 84,75 29.00	53635 107.28 28.00
20890 236.75 2.00	51300 24.90 18.67	52583 256.75 27.00	51937 190.38 25.33 51938 192.30 3.67	53052 86.75 29.00	53636 105.35 28.00
20891 234.75 2.00	51301 24.90 20.33			53053 88.75 29.00	53637 103.43 28.00
		52584 258.75 27.00			
20892 232.75 2.00	51302 24.90 22.00	52585 260.75 27.00	51939 192.30 5.33	53054 60.75 28.00	53638 240.75 29.00
20893 230.75 2.00	51302 24.90 22.00 51303 24.90 23.67	52585 260.75 27.00 52586 262.75 27.00		53054 60.75 28.00 53055 88.75 28.00	
		52585 260.75 27.00	51939 192.30 5.33		53638 240.75 29.00
20893 230.75 2.00	51303 24.90 23.67	52585 260.75 27.00 52586 262.75 27.00	51939 192.30 5.33 51940 192.30 7.00	53055 88.75 28.00	53638 240.75 29.00 53639 240.75 28.00
20893 230.75 2.00 20894 228.75 2.00	51303 24.90 23.67 51304 24.90 25.33	52585 260.75 27.00 52586 262.75 27.00 52587 264.75 27.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67	53055 88.75 28.00 53056 86.75 28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00
20893 230.75 2.00 20894 228.75 2.00 20895 226.75 2.00 20896 224.75 2.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33	52585 260.75 27.00 52586 262.75 27.00 52587 264.75 27.00 52588 266.75 27.00 52589 268.75 27.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00	53055 88.75 28.00 53056 86.75 28.00 53057 84.75 28.00 53058 82.75 28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00	52585 260.75 27.00 52586 262.75 27.00 52587 264.75 27.00 52588 266.75 27.00 52589 268.75 27.00 52590 240.75 3.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67	59055     88.75     28.00       53056     86.75     28.00       53057     84.75     28.00       53058     82.75     28.00       53059     80.75     28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67	52585 260.75 27.00 52586 262.75 27.00 52587 264.75 27.00 52588 266.75 27.00 52589 268.75 27.00 52590 240.75 3.67 52591 240.75 5.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33	59055     88.75     28.00       53056     86.75     28.00       53057     84.75     28.00       53058     82.75     28.00       53059     80.75     28.00       53060     78.75     28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33	52585 260.75 27.00 52586 262.75 27.00 52587 264.75 27.00 52588 266.75 27.00 52589 268.75 27.00 52590 240.75 3.67 52591 240.75 5.33 52592 240.75 7.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 17.00	53055     88.75     28.00       53056     86.75     28.00       53057     84.75     28.00       53058     82.75     28.00       53060     78.75     28.00       53061     76.75     28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00       20900     216.75     2.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33 51310 26.85 12.00	52585     260.75     27.00       52586     262.75     27.00       52587     264.75     27.00       52588     268.75     27.00       52589     268.75     27.00       52590     240.75     3.67       52591     240.75     5.33       52592     240.75     7.00       52593     240.75     8.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 12.00 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 17.00 51947 192.30 18.67	53055     88.75     28.00       53056     86.75     28.00       53057     84.75     28.00       53058     82.75     28.00       53060     78.75     28.00       53061     76.75     28.00       53062     74.75     28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00       20900     216.75     2.00       20901     214.75     2.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33 51310 26.85 12.00 51311 26.85 13.67	52585     260.75     27.00       52586     262.75     27.00       52587     264.75     27.00       52588     266.75     27.00       52589     268.75     27.00       52590     240.75     3.67       52591     240.75     5.33       52592     240.75     7.00       52593     240.75     8.67       52594     240.75     10.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 17.00 51947 192.30 18.67 51948 192.30 20.33	53055     88.75     28.00       53056     86.75     28.00       53057     84.75     28.00       53058     82.75     28.00       53059     80.75     28.00       53060     78.75     28.00       53062     74.75     28.00       53063     72.75     28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53644 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00       20900     216.75     2.00       20902     212.75     2.00	51303     24.90     23.67       51304     24.90     25.33       51305     26.85     3.67       51306     26.85     5.33       51307     26.85     7.00       51308     26.85     8.67       51309     26.85     10.33       51310     26.85     12.00       51311     26.85     13.67       51312     26.85     15.33	52585     260.75     27.00       52586     262.75     27.00       52587     264.75     27.00       52588     266.75     27.00       52590     240.75     3.67       52591     240.75     5.33       52592     240.75     7.00       52593     240.75     10.33       52595     240.75     10.33       52595     240.75     12.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 17.00 51947 192.30 18.67 51947 192.30 18.67 51948 192.30 22.00	53055     88.75     28.00       53056     86.75     28.00       53057     84.75     28.00       53058     82.75     28.00       53060     78.75     28.00       53061     76.75     28.00       53062     74.75     28.00       53063     72.75     28.00       53064     70.75     28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     226.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00       20900     216.75     2.00       20901     214.75     2.00       20902     212.75     2.00       20903     210.75     1.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 7.00 51308 26.85 7.00 51309 26.85 10.33 51310 26.85 12.00 51311 26.85 12.00 51311 26.85 15.33 51313 26.85 17.00	52585     260.75     27.00       52586     262.75     27.00       52587     264.75     27.00       52588     266.75     27.00       52590     240.75     3.67       52591     240.75     5.33       52592     240.75     7.00       52593     240.75     8.67       52594     240.75     10.33       52595     240.75     12.00       52596     240.75     13.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 12.00 51945 192.30 15.33 51946 192.30 17.00 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53060         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     224.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00       20900     216.75     2.00       20901     214.75     2.00       20903     210.75     1.00       20904     212.75     1.00       20904     212.75     1.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33 51310 26.85 12.00 51311 26.85 13.67 51312 26.85 17.00 51314 26.85 18.67	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52590         268.75         27.00           52591         240.75         3.67           52592         240.75         7.00           52593         240.75         18.67           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         15.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.67 51945 192.30 17.00 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 25.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53649 228.75 29.00 53649 228.75 29.00 53650 230.75 29.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         1.00           20904         212.75         1.00           20905         214.75         1.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33 51310 26.85 12.00 51311 26.85 13.67 51312 26.85 15.36 51313 26.85 17.00 51314 26.85 18.67 51315 26.85 20.33	52585     260.75     27.00       52586     262.75     27.00       52587     264.75     27.00       52589     266.75     27.00       52590     240.75     3.67       52591     240.75     5.33       52592     240.75     7.00       52593     240.75     10.33       52594     240.75     10.33       52595     240.75     13.67       52597     240.75     15.33       52598     240.75     15.00       52598     240.75     17.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.67 51945 192.30 17.00 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 22.67 51951 192.30 25.33 51952 194.23 3.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00
20893     230.75     2.00       20894     228.75     2.00       20895     224.75     2.00       20896     224.75     2.00       20897     222.75     2.00       20898     220.75     2.00       20899     218.75     2.00       20900     216.75     2.00       20901     214.75     2.00       20903     210.75     1.00       20904     212.75     1.00       20904     212.75     1.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33 51310 26.85 12.00 51311 26.85 13.67 51312 26.85 17.00 51314 26.85 18.67	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52590         268.75         27.00           52591         240.75         3.67           52592         240.75         7.00           52593         240.75         18.67           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         15.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.67 51945 192.30 17.00 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 25.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53649 228.75 29.00 53649 228.75 29.00 53650 230.75 29.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         1.00           20904         212.75         1.00           20905         214.75         1.00	51303 24.90 23.67 51304 24.90 25.33 51305 26.85 3.67 51306 26.85 5.33 51307 26.85 7.00 51308 26.85 8.67 51309 26.85 10.33 51310 26.85 12.00 51311 26.85 13.67 51312 26.85 15.36 51313 26.85 17.00 51314 26.85 18.67 51315 26.85 20.33	52585     260.75     27.00       52586     262.75     27.00       52587     264.75     27.00       52589     266.75     27.00       52590     240.75     3.67       52591     240.75     5.33       52592     240.75     7.00       52593     240.75     10.33       52594     240.75     10.33       52595     240.75     13.67       52597     240.75     15.33       52598     240.75     15.00       52598     240.75     17.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.67 51945 192.30 17.00 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 22.67 51951 192.30 25.33 51952 194.23 3.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53648 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20990         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         5.33           51307         26.85         7.00           51308         26.85         8.67           51309         26.85         12.00           51311         26.85         13.67           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         18.67           51315         26.85         20.33           51316         26.85         22.00	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         7.00           52593         240.75         10.33           52595         240.75         12.00           52596         240.75         13.67           52597         240.75         15.33           52598         240.75         15.33           52599         240.75         16.67           52599         240.75         18.67           52599         240.75         18.67           52599         240.75         18.67           52600         240.75         20.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 17.00 51947 192.30 18.67 51948 192.30 17.00 51947 192.30 18.67 51948 192.30 20.03 51949 192.30 20.03 51950 192.30 25.33 51952 194.23 25.33 51952 194.23 5.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53069         150.75         3.67	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20907         218.75         1.00           20907         218.75         1.00           20907         218.75         1.00           20908         220.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         5.33           51307         26.85         7.00           51308         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         23.67           51318         26.85         23.67           51318         26.85         25.33	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         7.00           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         12.00           52596         240.75         15.33           52597         240.75         15.33           52598         240.75         17.00           52599         240.75         18.67           52590         240.75         20.33           52600         240.75         20.33           52601         240.75         20.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 15.33 51946 192.30 18.67 51948 192.30 20.33 51949 192.30 20.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 3.67 51953 194.23 5.33 51954 194.23 7.00 51956 194.23 8.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20908         220.75         1.00           20909         222.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         17.00           51314         26.85         18.67           51315         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         7.00           52593         240.75         18.67           52594         240.75         12.00           52595         240.75         15.33           52597         240.75         15.33           52598         240.75         18.67           52600         240.75         18.67           52601         240.75         22.00           52602         240.75         22.00           52602         240.75         23.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51953 194.23 5.33 51954 194.23 7.00 51955 194.23 8.67 51956 194.23 8.67 51956 194.23 10.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 236.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         214.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20909         222.75         1.00           20910         224.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51314         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         7.00           52592         240.75         10.33           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         15.33           52598         240.75         18.67           52599         240.75         18.67           52599         240.75         12.00           52599         240.75         12.00           52599         240.75         12.07           52600         240.75         22.00           52602         240.75         22.00           52603         240.75         23.67           52603         240.75         25.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.67 51945 192.30 17.00 51947 192.30 17.00 51947 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 25.33 51952 194.23 3.67 51953 194.23 5.33 51954 194.23 7.00 51956 194.23 7.00 51956 194.23 8.67 61956 194.23 10.33 51957 194.23 10.33	53055         88.75         28.00           53056         86.75         28.00           53058         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53069         150.75         3.67           53071         150.75         5.33           53071         150.75         5.33           53072         150.75         8.67	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53655 210.75 29.00 53655 210.75 29.00 53655 210.75 29.00 53655 210.75 29.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20911         226.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         5.33           51307         26.85         7.00           51308         26.85         10.33           51310         26.85         12.00           51311         26.85         15.37           51312         26.85         15.07           51314         26.85         18.67           51315         26.85         18.67           51316         26.85         20.33           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         7.00	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52595         240.75         13.67           52596         240.75         15.33           52597         240.75         17.00           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         25.33           52601         240.75         25.33           52602         240.75         25.33           52604         242.75         3.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 17.00 51947 192.30 18.67 51948 192.30 20.03 51949 192.30 20.03 51949 192.30 25.00 51950 192.30 25.67 51951 192.30 25.33 51952 194.23 5.33 51952 194.23 7.00 51955 194.23 8.67 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 10.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         8.67           53073         150.75         10.33	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53645 222.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53655 210.75 28.00 53655 238.75 28.00 53657 238.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20898         220.75         2.00           20899         216.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20911         226.75         1.00           20911         226.75         1.00           20911         226.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51307         26.85         7.03           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         17.00           51314         26.85         18.67           51315         26.85         20.33           51316         26.85         22.00           51317         26.85         25.33           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         7.00           51322         28.80         8.67	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52598         240.75         15.33           52599         240.75         18.67           52599         240.75         18.67           52690         240.75         20.03           52601         240.75         22.00           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 15.33 51946 192.30 18.67 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 20.05 51950 192.30 25.33 51952 194.23 25.33 51952 194.23 3.67 51953 194.23 7.00 51956 194.23 8.67 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 10.05 51958 194.23 10.05	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53074         150.75         10.33           53074         150.75         12.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.76 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53655 238.75 28.00 53657 236.75 28.00 53658 238.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20912         228.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.33           51315         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         7.00           51322         28.80         8.67           51323         28.80         10.33	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52597         240.75         15.33           52598         240.75         18.67           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         25.33           52604         240.75         5.33           52605         242.75         5.33           52606         242.75         5.33           52606         242.75         5.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 15.33 51946 192.30 18.67 51947 192.30 18.67 51948 192.30 20.33 51949 192.30 20.33 51950 192.30 23.36 51951 192.30 23.36 51952 194.23 3.67 51953 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 12.00 51958 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53069         150.75         28.00           53069         150.75         5.33           53071         150.75         5.33           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         10.33           53075         150.75         13.67	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 238.75 28.00 53658 234.75 28.00 53659 232.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20896         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         23.67           51318         26.85         23.67           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.03           51322         28.80         10.33           51323         28.80         10.33           51324         28.80         10.33	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52598         240.75         15.33           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         20.33           52602         240.75         25.33           52603         240.75         25.33           52604         242.75         5.33           52605         242.75         5.33           52606         242.75         5.33           52607         242.75         7.00           52607         242.75         8.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 15.33 51946 192.30 18.67 51948 192.30 20.33 51949 192.30 20.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 3.67 51953 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 10.33 51958 194.23 10.33 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.63 51960 194.23 17.00 51961 194.23 17.00	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53074         150.75         10.33           53075         150.75         15.07           53076         150.75         15.36           53077         150.75         15.36           53078         150.75         15.36           53078         150.75         15.36           53078         150.75         15.36	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53657 236.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53659 232.75 28.00 53659 232.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         1.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         214.75         1.00           20907         218.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20914         232.75         1.00           20914         232.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         8.67           51322         28.80         10.33           51324         28.80         10.33           51324         28.80         12.00           51325         28.80         13.67</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52595         240.75         15.33           52596         240.75         15.33           52598         240.75         17.00           52599         240.75         10.33           52600         240.75         20.33           52601         240.75         20.33           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         7.00           52607         242.75         8.67           52608         242.75         8.67           52608         242.75         10.33  <td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51951 194.23 5.33 51952 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 12.00 51958 194.23 15.33 51959 194.23 15.33 51960 194.23 17.00 51961 194.23 17.00 51961 194.23 17.00 51961 194.23 18.67 51961 194.23 18.67</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53069         150.75         28.00           53069         150.75         5.33           53071         150.75         5.33           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         10.33           53075         150.75         13.67</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 238.75 28.00 53658 234.75 28.00 53659 232.75 28.00</td></td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         8.67           51322         28.80         10.33           51324         28.80         10.33           51324         28.80         12.00           51325         28.80         13.67	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52595         240.75         15.33           52596         240.75         15.33           52598         240.75         17.00           52599         240.75         10.33           52600         240.75         20.33           52601         240.75         20.33           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         7.00           52607         242.75         8.67           52608         242.75         8.67           52608         242.75         10.33 <td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51951 194.23 5.33 51952 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 12.00 51958 194.23 15.33 51959 194.23 15.33 51960 194.23 17.00 51961 194.23 17.00 51961 194.23 17.00 51961 194.23 18.67 51961 194.23 18.67</td> <td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53069         150.75         28.00           53069         150.75         5.33           53071         150.75         5.33           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         10.33           53075         150.75         13.67</td> <td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 238.75 28.00 53658 234.75 28.00 53659 232.75 28.00</td>	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51951 194.23 5.33 51952 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 12.00 51958 194.23 15.33 51959 194.23 15.33 51960 194.23 17.00 51961 194.23 17.00 51961 194.23 17.00 51961 194.23 18.67 51961 194.23 18.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53069         150.75         28.00           53069         150.75         5.33           53071         150.75         5.33           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         10.33           53075         150.75         13.67	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 238.75 28.00 53658 234.75 28.00 53659 232.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20896         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         23.67           51318         26.85         23.67           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.03           51322         28.80         10.33           51323         28.80         10.33           51324         28.80         10.33	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52598         240.75         15.33           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         20.33           52602         240.75         25.33           52603         240.75         25.33           52604         242.75         5.33           52605         242.75         5.33           52606         242.75         5.33           52607         242.75         7.00           52607         242.75         8.67	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 15.33 51946 192.30 18.67 51948 192.30 20.33 51949 192.30 20.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 3.67 51953 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 10.33 51958 194.23 10.33 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.63 51960 194.23 17.00 51961 194.23 17.00	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53074         150.75         10.33           53075         150.75         15.07           53076         150.75         15.36           53077         150.75         15.36           53078         150.75         15.36           53078         150.75         15.36           53078         150.75         15.36	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53657 236.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53659 232.75 28.00 53659 232.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         1.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         214.75         1.00           20907         218.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20914         232.75         1.00           20914         232.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         8.67           51322         28.80         10.33           51324         28.80         10.33           51324         28.80         12.00           51325         28.80         13.67</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52595         240.75         15.33           52596         240.75         15.33           52598         240.75         17.00           52599         240.75         10.33           52600         240.75         20.33           52601         240.75         20.33           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         7.00           52607         242.75         8.67           52608         242.75         8.67           52608         242.75         10.33  <td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51951 194.23 5.33 51952 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 12.00 51958 194.23 15.33 51959 194.23 15.33 51960 194.23 17.00 51961 194.23 17.00 51961 194.23 17.00 51961 194.23 18.67 51961 194.23 18.67</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         10.36           53075         150.75         15.37           53076         150.75         15.37           53075         150.75         15.33           53076         150.75         15.33           53077         150.75         15.33           53077         150.75         15.33</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 234.75 29.00 53652 236.75 29.00 53655 236.75 29.00 53655 236.75 29.00 53656 238.75 29.00 53656 238.75 29.00 53657 236.75 29.00 53658 234.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00</td></td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         8.67           51322         28.80         10.33           51324         28.80         10.33           51324         28.80         12.00           51325         28.80         13.67	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52595         240.75         15.33           52596         240.75         15.33           52598         240.75         17.00           52599         240.75         10.33           52600         240.75         20.33           52601         240.75         20.33           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         7.00           52607         242.75         8.67           52608         242.75         8.67           52608         242.75         10.33 <td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51951 194.23 5.33 51952 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 12.00 51958 194.23 15.33 51959 194.23 15.33 51960 194.23 17.00 51961 194.23 17.00 51961 194.23 17.00 51961 194.23 18.67 51961 194.23 18.67</td> <td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         10.36           53075         150.75         15.37           53076         150.75         15.37           53075         150.75         15.33           53076         150.75         15.33           53077         150.75         15.33           53077         150.75         15.33</td> <td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 234.75 29.00 53652 236.75 29.00 53655 236.75 29.00 53655 236.75 29.00 53656 238.75 29.00 53656 238.75 29.00 53657 236.75 29.00 53658 234.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00</td>	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 3.67 51951 194.23 5.33 51952 194.23 5.33 51954 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51957 194.23 12.00 51958 194.23 15.33 51959 194.23 15.33 51960 194.23 17.00 51961 194.23 17.00 51961 194.23 17.00 51961 194.23 18.67 51961 194.23 18.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         10.36           53075         150.75         15.37           53076         150.75         15.37           53075         150.75         15.33           53076         150.75         15.33           53077         150.75         15.33           53077         150.75         15.33	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 234.75 29.00 53652 236.75 29.00 53655 236.75 29.00 53655 236.75 29.00 53656 238.75 29.00 53656 238.75 29.00 53657 236.75 29.00 53658 234.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         226.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20899         216.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20912         238.75         1.00           20913         230.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         5.33           51307         26.85         7.00           51308         26.85         7.03           51309         26.85         10.33           51310         26.85         15.36           51311         26.85         15.33           51312         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         20.33           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         10.33           51323         28.80         10.33           51324         28.80         10.33           51325         28.80         13.67           51326         28.80         13.67           51326         28.80         13.63           51327</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         13.67           52598         240.75         18.67           52699         240.75         18.67           52600         240.75         23.3           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         5.33           52604         242.75         5.33           52605         242.75         5.33           52607         242.75         10.33           52608         242.75         10.33           52609         242.75         10.33           52609         242.75         10.03</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 20.33 51949 192.30 25.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 26.7 51953 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51958 194.23 10.33 51959 194.23 10.35 51951 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51951 194.23 10.33 51957 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51961 194.23 12.00 51961 194.23 20.33 51963 194.23 22.00 51964 194.23 22.00</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53079         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         12.00           53074         150.75         15.33           53075         150.75         15.36           53077         150.75         15.36           53078         150.75         15.36           53078         150.75         15.36           53078         150.75         15.06</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53655 210.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53660 230.75 28.00 53662 226.75 28.00 53662 226.75 28.00 53662 226.75 28.00 53662 226.75 28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         5.33           51307         26.85         7.00           51308         26.85         7.03           51309         26.85         10.33           51310         26.85         15.36           51311         26.85         15.33           51312         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         20.33           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         10.33           51323         28.80         10.33           51324         28.80         10.33           51325         28.80         13.67           51326         28.80         13.67           51326         28.80         13.63           51327	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         13.67           52598         240.75         18.67           52699         240.75         18.67           52600         240.75         23.3           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         5.33           52604         242.75         5.33           52605         242.75         5.33           52607         242.75         10.33           52608         242.75         10.33           52609         242.75         10.33           52609         242.75         10.03	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 20.33 51949 192.30 25.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 26.7 51953 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51958 194.23 10.33 51959 194.23 10.35 51951 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51951 194.23 10.33 51957 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51951 194.23 12.00 51961 194.23 12.00 51961 194.23 20.33 51963 194.23 22.00 51964 194.23 22.00	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53079         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         12.00           53074         150.75         15.33           53075         150.75         15.36           53077         150.75         15.36           53078         150.75         15.36           53078         150.75         15.36           53078         150.75         15.06	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53647 224.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53655 210.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53660 230.75 28.00 53662 226.75 28.00 53662 226.75 28.00 53662 226.75 28.00 53662 226.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         13.63           51313         26.85         13.67           51314         26.85         20.33           51315         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         10.33           51322         28.80         10.33           51324         28.80         10.33           51325         28.80         13.67           51326         28.80         15.33           51327         28.80         15.33           51328         28.80         17.00           5132</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52597         240.75         15.33           52598         240.75         18.67           52600         240.75         18.67           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         23.67           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         5.33           52607         242.75         13.67           52608         242.75         10.33           52609         242.75         10.33           52609         242.75         12.00</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 23.67 51951 192.30 23.67 51952 194.23 3.67 51953 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 12.07 51959 194.23 12.07 51959 194.23 12.07 51950 194.23 13.67 51950 194.23 13.67 51950 194.23 13.67 51951 194.23 12.00 51954 194.23 20.33 51963 194.23 20.35 51963 194.23 20.35 51963 194.23 20.35</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         28.00           53079         150.75         7.00           53072         150.75         7.00           53073         150.75         10.33           53074         150.75         13.67           53075         150.75         15.33           53077         150.75         15.33           53078         150.75         15.07           53079         150.75         15.07           53079         150.75         15.07           53079         150.75         15.07</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 238.75 29.00 53655 238.75 28.00 53656 238.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 222.75 28.00 53662 226.75 28.00 53663 224.75 28.00 53661 228.75 28.00 53663 224.75 28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         13.63           51313         26.85         13.67           51314         26.85         20.33           51315         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         10.33           51322         28.80         10.33           51324         28.80         10.33           51325         28.80         13.67           51326         28.80         15.33           51327         28.80         15.33           51328         28.80         17.00           5132	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52597         240.75         15.33           52598         240.75         18.67           52600         240.75         18.67           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         23.67           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         5.33           52607         242.75         13.67           52608         242.75         10.33           52609         242.75         10.33           52609         242.75         12.00	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 23.67 51951 192.30 23.67 51952 194.23 3.67 51953 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 12.07 51959 194.23 12.07 51959 194.23 12.07 51950 194.23 13.67 51950 194.23 13.67 51950 194.23 13.67 51951 194.23 12.00 51954 194.23 20.33 51963 194.23 20.35 51963 194.23 20.35 51963 194.23 20.35	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         28.00           53079         150.75         7.00           53072         150.75         7.00           53073         150.75         10.33           53074         150.75         13.67           53075         150.75         15.33           53077         150.75         15.33           53078         150.75         15.07           53079         150.75         15.07           53079         150.75         15.07           53079         150.75         15.07	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 238.75 29.00 53655 238.75 28.00 53656 238.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 222.75 28.00 53662 226.75 28.00 53663 224.75 28.00 53661 228.75 28.00 53663 224.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20896         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         22.00           51317         26.85         25.33           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         10.33           51323         28.80         10.33           51324         28.80         12.00           51325         28.80         13.67           51326         28.80         15.33           51327         28.80         15.33           51328</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52597         240.75         15.33           52598         240.75         15.33           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         25.33           52601         240.75         25.33           52602         242.75         5.33           52604         242.75         5.33           52605         242.75         5.33           52607         242.75         10.33           52608         242.75         10.33           52609         242.75         10.33</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 15.33 51946 192.30 18.67 51948 192.30 20.33 51949 192.30 20.33 51949 192.30 25.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 3.67 51953 194.23 7.00 51956 194.23 10.33 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 10.33 51950 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 20.33 51960 194.23 20.33 51960 194.23 20.33 51961 194.23 20.33 51963 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         12.00           53074         150.75         15.36           53075         150.75         15.37           53076         150.75         15.36           53077         150.75         15.33           53078         150.75         15.33           53079         150.75         15.37           53078         150.75         15.07</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 238.75 29.00 53656 238.75 28.00 53656 238.75 28.00 53659 232.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00 53662 224.75 28.00 53662 224.75 28.00 53662 224.75 28.00 53664 222.75 28.00 53664 222.75 28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         17.00           51314         26.85         20.33           51315         26.85         20.33           51316         26.85         22.00           51317         26.85         25.33           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         10.33           51323         28.80         10.33           51324         28.80         12.00           51325         28.80         13.67           51326         28.80         15.33           51327         28.80         15.33           51328	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52597         240.75         15.33           52598         240.75         15.33           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         25.33           52601         240.75         25.33           52602         242.75         5.33           52604         242.75         5.33           52605         242.75         5.33           52607         242.75         10.33           52608         242.75         10.33           52609         242.75         10.33	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 8.67 51942 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 15.33 51946 192.30 18.67 51948 192.30 20.33 51949 192.30 20.33 51949 192.30 25.33 51950 192.30 25.33 51951 192.30 25.33 51952 194.23 3.67 51953 194.23 7.00 51956 194.23 10.33 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 10.33 51950 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 20.33 51960 194.23 20.33 51960 194.23 20.33 51961 194.23 20.33 51963 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05 51956 194.23 22.05	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         12.00           53074         150.75         15.36           53075         150.75         15.37           53076         150.75         15.36           53077         150.75         15.33           53078         150.75         15.33           53079         150.75         15.37           53078         150.75         15.07	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 238.75 29.00 53656 238.75 28.00 53656 238.75 28.00 53659 232.75 28.00 53659 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00 53662 224.75 28.00 53662 224.75 28.00 53662 224.75 28.00 53664 222.75 28.00 53664 222.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20896         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         1.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         16.33           51323         28.80         10.33           51324         28.80         12.00           51325         28.80         15.33           51327         28.80         15.33           51328         28.80         15.33           51329</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         7.00           52593         240.75         12.00           52594         240.75         12.00           52595         240.75         15.33           52598         240.75         15.33           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         7.00           52607         242.75         8.67           52608         242.75         10.33           52609         242.75         10.33           52610         242.75         13.67</td><td>51939         192.30         5.33           51940         192.30         7.00           51941         192.30         8.67           51942         192.30         10.33           51943         192.30         15.03           51945         192.30         15.00           51946         192.30         17.00           51947         192.30         20.33           51949         192.30         22.00           51950         192.30         23.67           51951         192.30         25.33           51952         194.23         3.67           51953         194.23         3.67           51954         194.23         3.67           51955         194.23         3.67           51956         194.23         10.33           51957         194.23         13.67           51958         194.23         13.67           51958         194.23         13.67           51959         194.23         13.67           51959         194.23         13.67           51960         194.23         13.67           51961         194.23         13.67</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53066         68.75         28.00           53066         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53070         150.75         3.67           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         10.33           53074         150.75         10.30           53075         150.75         15.31           53076         150.75         15.33           53077         150.75         15.33           53078         150.75         15.33           53079         150.75         15.33           53077         150.75         12.00</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 236.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00 53662 226.75 28.00 53663 224.75 28.00 53663 224.75 28.00 53664 222.75 28.00 53665 220.75 28.00 53666 220.75 28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         16.67           51314         26.85         20.33           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         5.33           51322         28.80         16.33           51323         28.80         10.33           51324         28.80         12.00           51325         28.80         15.33           51327         28.80         15.33           51328         28.80         15.33           51329	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         7.00           52593         240.75         12.00           52594         240.75         12.00           52595         240.75         15.33           52598         240.75         15.33           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         25.33           52604         242.75         3.67           52605         242.75         7.00           52607         242.75         8.67           52608         242.75         10.33           52609         242.75         10.33           52610         242.75         13.67	51939         192.30         5.33           51940         192.30         7.00           51941         192.30         8.67           51942         192.30         10.33           51943         192.30         15.03           51945         192.30         15.00           51946         192.30         17.00           51947         192.30         20.33           51949         192.30         22.00           51950         192.30         23.67           51951         192.30         25.33           51952         194.23         3.67           51953         194.23         3.67           51954         194.23         3.67           51955         194.23         3.67           51956         194.23         10.33           51957         194.23         13.67           51958         194.23         13.67           51958         194.23         13.67           51959         194.23         13.67           51959         194.23         13.67           51960         194.23         13.67           51961         194.23         13.67	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53059         80.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53066         68.75         28.00           53066         68.75         28.00           53066         66.75         28.00           53068         62.75         28.00           53070         150.75         3.67           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         10.33           53074         150.75         10.30           53075         150.75         15.31           53076         150.75         15.33           53077         150.75         15.33           53078         150.75         15.33           53079         150.75         15.33           53077         150.75         12.00	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53642 214.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53652 236.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 232.75 28.00 53660 230.75 28.00 53661 228.75 28.00 53662 226.75 28.00 53663 224.75 28.00 53663 224.75 28.00 53664 222.75 28.00 53665 220.75 28.00 53666 220.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         228.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51314         26.85         18.67           51315         26.85         20.03           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         23.67           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         7.00           51322         28.80         10.33           51324         28.80         12.00           51325         28.80         15.33           51326         28.80         15.33           51327         28.80         15.33           51328         28.80         15.33           51329</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         13.67           52598         240.75         17.00           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         5.33           52607         242.75         10.33           52608         242.75         10.33           52609         242.75         10.33           52610         242.75         10.36</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 17.00 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 22.00 51950 192.30 25.67 51951 192.30 25.33 51952 194.23 5.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51958 194.23 10.33 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 12.00 51958 194.23 13.67 51959 194.23 12.00 51958 194.23 20.33 51960 194.23 20.33 51960 194.23 20.33 51961 194.23 20.33 51963 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51967 194.23 20.33 51968 194.23 20.05</td><td>53055         88.75         28.00           53056         86.75         28.00           53058         82.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         62.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53071         150.75         7.00           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         12.00           53075         150.75         13.67           53076         150.75         15.33           53077         150.75         17.00           53078         150.75         17.00           53079         150.75         20.33           53079         150.75         20.33</td><td>53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 238.75 28.00 53657 236.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53661 222.75 28.00 53662 226.75 28.00 53663 224.75 28.00 53664 222.75 28.00 53665 220.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 220.75 28.00 53666 218.75 28.00 53666 218.75 28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51314         26.85         18.67           51315         26.85         20.03           51316         26.85         22.00           51317         26.85         23.67           51318         26.85         23.67           51319         28.80         3.67           51320         28.80         5.33           51321         28.80         7.00           51322         28.80         10.33           51324         28.80         12.00           51325         28.80         15.33           51326         28.80         15.33           51327         28.80         15.33           51328         28.80         15.33           51329	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52594         240.75         12.00           52596         240.75         13.67           52597         240.75         13.67           52598         240.75         17.00           52599         240.75         18.67           52600         240.75         20.33           52601         240.75         23.67           52602         240.75         25.33           52604         242.75         3.67           52605         242.75         5.33           52606         242.75         5.33           52607         242.75         10.33           52608         242.75         10.33           52609         242.75         10.33           52610         242.75         10.36	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 17.00 51946 192.30 17.00 51947 192.30 20.33 51949 192.30 22.00 51950 192.30 25.67 51951 192.30 25.33 51952 194.23 5.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 10.33 51958 194.23 10.33 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 13.67 51959 194.23 12.00 51958 194.23 13.67 51959 194.23 12.00 51958 194.23 20.33 51960 194.23 20.33 51960 194.23 20.33 51961 194.23 20.33 51963 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51967 194.23 20.33 51968 194.23 20.05	53055         88.75         28.00           53056         86.75         28.00           53058         82.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53063         72.75         28.00           53064         70.75         28.00           53066         68.75         28.00           53066         62.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53071         150.75         7.00           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         12.00           53075         150.75         13.67           53076         150.75         15.33           53077         150.75         17.00           53078         150.75         17.00           53079         150.75         20.33           53079         150.75         20.33	53638 240.75 29.00 53639 240.75 28.00 53640 210.75 29.00 53641 212.75 29.00 53643 216.75 29.00 53644 218.75 29.00 53645 220.75 29.00 53646 222.75 29.00 53646 222.75 29.00 53648 226.75 29.00 53649 228.75 29.00 53650 230.75 29.00 53651 232.75 29.00 53652 234.75 29.00 53653 236.75 29.00 53654 238.75 29.00 53655 210.75 28.00 53656 238.75 28.00 53656 238.75 28.00 53657 236.75 28.00 53658 234.75 28.00 53659 232.75 28.00 53661 222.75 28.00 53662 226.75 28.00 53663 224.75 28.00 53664 222.75 28.00 53665 220.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 238.75 28.00 53666 220.75 28.00 53666 218.75 28.00 53666 218.75 28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20899         216.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51307         26.85         7.03           51307         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.30           51315         26.85         20.30           51316         26.85         20.30           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         3.67           51321         28.80         7.00           51322         28.80         10.33           51324         28.80         13.30           51325         28.80         13.33           51327         28.80         15.33           51328         28.80         15.33           51329</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         12.00           52596         240.75         13.67           52597         240.75         18.67           52698         240.75         18.67           52699         240.75         18.67           52600         240.75         20.03           52601         240.75         23.67           52602         240.75         23.67           52603         242.75         3.67           52604         242.75         3.67           52607         242.75         1.00           52608         242.75         10.33           52609         242.75         10.33           52601         242.75         10.0</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 25.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 15.33 51950 194.23 20.33 51950 194.23 20.33 51950 195.15 5.33 51958 195.15 5.33 51958 195.15 5.33</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         15.36           53074         150.75         15.36           53075         150.75         15.36           53078         150.75         15.30           53078         150.75         15.00           53078         150.75         15.00           53078         150.75         20.00</td><td>53638         240.75         29.00           53639         240.75         28.00           53640         210.75         29.00           53641         212.75         29.00           53642         214.75         29.00           53643         216.75         29.00           53644         218.75         29.00           53645         222.75         29.00           53647         224.75         29.00           53648         226.75         29.00           53650         230.75         29.00           53651         232.75         29.00           53652         234.75         29.00           53653         236.75         29.00           53654         238.75         29.00           53655         210.75         28.00           53657         23.00         53653         230.75         28.00           53658         238.75         28.00         53659         232.75         28.00           53659         232.75         28.00         53669         230.75         28.00           53669         232.75         28.00         53662         226.75         28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51307         26.85         7.03           51307         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.30           51315         26.85         20.30           51316         26.85         20.30           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         3.67           51321         28.80         7.00           51322         28.80         10.33           51324         28.80         13.30           51325         28.80         13.33           51327         28.80         15.33           51328         28.80         15.33           51329	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         12.00           52596         240.75         13.67           52597         240.75         18.67           52698         240.75         18.67           52699         240.75         18.67           52600         240.75         20.03           52601         240.75         23.67           52602         240.75         23.67           52603         242.75         3.67           52604         242.75         3.67           52607         242.75         1.00           52608         242.75         10.33           52609         242.75         10.33           52601         242.75         10.0	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 25.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 15.33 51950 194.23 20.33 51950 194.23 20.33 51950 195.15 5.33 51958 195.15 5.33 51958 195.15 5.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         15.36           53074         150.75         15.36           53075         150.75         15.36           53078         150.75         15.30           53078         150.75         15.00           53078         150.75         15.00           53078         150.75         20.00	53638         240.75         29.00           53639         240.75         28.00           53640         210.75         29.00           53641         212.75         29.00           53642         214.75         29.00           53643         216.75         29.00           53644         218.75         29.00           53645         222.75         29.00           53647         224.75         29.00           53648         226.75         29.00           53650         230.75         29.00           53651         232.75         29.00           53652         234.75         29.00           53653         236.75         29.00           53654         238.75         29.00           53655         210.75         28.00           53657         23.00         53653         230.75         28.00           53658         238.75         28.00         53659         232.75         28.00           53659         232.75         28.00         53669         230.75         28.00           53669         232.75         28.00         53662         226.75         28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20898         220.75         2.00           20899         218.75         2.00           20900         214.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20917         238.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.33           51315         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         3.67           51321         28.80         10.33           51322         28.80         10.33           51324         28.80         10.33           51325         28.80         15.33           51327         28.80         15.33           51329         28.80         17.00           51328         28.80         16.67           5133</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52597         240.75         15.33           52598         240.75         18.67           52600         240.75         20.03           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         5.33           52604         242.75         5.33           52605         242.75         5.33           52606         242.75         10.33           52607         242.75         10.3           52608         242.75         10.3           52609         242.75         10.3      &lt;</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 23.67 51952 194.23 25.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51956 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 20.33 51960 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 195.5 5.33 51968 196.15 5.33 51969 196.15 5.30 51969 196.15 5.30 51969 196.15 5.30</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         28.00           53079         150.75         7.00           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         13.67           53075         150.75         15.03           53077         150.75         15.03           53078         150.75         15.07           53079         150.75         15.07           53079         150.75         15.07           53079         150.75         20.0</td><td>53638         240.75         29.00           53639         240.75         28.00           53640         210.75         29.00           53641         212.75         29.00           53642         214.75         29.00           53643         216.75         29.00           53644         218.75         29.00           53645         220.75         29.00           53646         222.75         29.00           53648         226.75         29.00           53650         230.75         29.00           53651         232.75         29.00           53652         234.75         29.00           53653         236.75         29.00           53654         238.75         29.00           53655         210.75         28.00           53656         238.75         28.00           53657         28.00         53658         234.75         28.00           53658         234.75         28.00         53659         232.75         28.00           53669         230.75         28.00         53669         230.75         28.00           53669         226.75         28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51308         26.85         7.00           51309         26.85         10.33           51310         26.85         12.00           51311         26.85         13.63           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.33           51315         26.85         22.00           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         3.67           51321         28.80         10.33           51322         28.80         10.33           51324         28.80         10.33           51325         28.80         15.33           51327         28.80         15.33           51329         28.80         17.00           51328         28.80         16.67           5133	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         13.67           52596         240.75         15.33           52597         240.75         15.33           52598         240.75         18.67           52600         240.75         20.03           52601         240.75         23.67           52602         240.75         23.67           52603         240.75         5.33           52604         242.75         5.33           52605         242.75         5.33           52606         242.75         10.33           52607         242.75         10.3           52608         242.75         10.3           52609         242.75         10.3      <	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 15.33 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 23.67 51951 192.30 23.67 51952 194.23 25.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51956 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 20.33 51960 194.23 20.33 51966 194.23 20.33 51966 194.23 20.33 51966 195.5 5.33 51968 196.15 5.33 51969 196.15 5.30 51969 196.15 5.30 51969 196.15 5.30	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         66.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         28.00           53079         150.75         7.00           53072         150.75         8.67           53073         150.75         10.33           53074         150.75         13.67           53075         150.75         15.03           53077         150.75         15.03           53078         150.75         15.07           53079         150.75         15.07           53079         150.75         15.07           53079         150.75         20.0	53638         240.75         29.00           53639         240.75         28.00           53640         210.75         29.00           53641         212.75         29.00           53642         214.75         29.00           53643         216.75         29.00           53644         218.75         29.00           53645         220.75         29.00           53646         222.75         29.00           53648         226.75         29.00           53650         230.75         29.00           53651         232.75         29.00           53652         234.75         29.00           53653         236.75         29.00           53654         238.75         29.00           53655         210.75         28.00           53656         238.75         28.00           53657         28.00         53658         234.75         28.00           53658         234.75         28.00         53659         232.75         28.00           53669         230.75         28.00         53669         230.75         28.00           53669         226.75         28.00
20893         230.75         2.00           20894         228.75         2.00           20895         224.75         2.00           20896         224.75         2.00           20897         222.75         2.00           20899         216.75         2.00           20900         216.75         2.00           20901         214.75         2.00           20902         212.75         2.00           20903         210.75         1.00           20904         212.75         1.00           20905         214.75         1.00           20906         216.75         1.00           20907         218.75         1.00           20908         220.75         1.00           20909         222.75         1.00           20910         224.75         1.00           20911         226.75         1.00           20912         228.75         1.00           20913         230.75         1.00           20914         232.75         1.00           20915         234.75         1.00           20916         236.75         1.00 <td< td=""><td>51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51307         26.85         7.03           51307         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.30           51315         26.85         20.30           51316         26.85         20.30           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         3.67           51321         28.80         7.00           51322         28.80         10.33           51324         28.80         13.30           51325         28.80         13.33           51327         28.80         15.33           51328         28.80         15.33           51329</td><td>52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         12.00           52596         240.75         13.67           52597         240.75         18.67           52698         240.75         18.67           52699         240.75         18.67           52600         240.75         20.03           52601         240.75         23.67           52602         240.75         23.67           52603         242.75         3.67           52604         242.75         3.67           52607         242.75         1.00           52608         242.75         10.33           52609         242.75         10.33           52601         242.75         10.0</td><td>51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 25.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 15.33 51950 194.23 20.33 51950 194.23 20.33 51950 195.15 5.33 51958 195.15 5.33 51958 195.15 5.33</td><td>53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         15.36           53074         150.75         15.36           53075         150.75         15.36           53078         150.75         15.30           53078         150.75         15.00           53078         150.75         15.00           53078         150.75         20.00</td><td>53638         240.75         29.00           53639         240.75         28.00           53640         210.75         29.00           53641         212.75         29.00           53642         214.75         29.00           53643         216.75         29.00           53644         218.75         29.00           53645         222.75         29.00           53647         224.75         29.00           53648         226.75         29.00           53650         230.75         29.00           53651         232.75         29.00           53652         234.75         29.00           53653         236.75         29.00           53654         238.75         29.00           53655         210.75         28.00           53657         23.00         53653         230.75         28.00           53658         238.75         28.00         53659         232.75         28.00           53659         232.75         28.00         53669         230.75         28.00           53669         232.75         28.00         53662         226.75         28.00</td></td<>	51303         24.90         23.67           51304         24.90         25.33           51305         26.85         3.67           51306         26.85         7.00           51307         26.85         7.03           51307         26.85         10.33           51310         26.85         12.00           51311         26.85         15.33           51312         26.85         15.33           51313         26.85         17.00           51314         26.85         20.30           51315         26.85         20.30           51316         26.85         20.30           51317         26.85         23.67           51318         26.85         25.33           51319         28.80         3.67           51320         28.80         3.67           51321         28.80         7.00           51322         28.80         10.33           51324         28.80         13.30           51325         28.80         13.33           51327         28.80         15.33           51328         28.80         15.33           51329	52585         260.75         27.00           52586         262.75         27.00           52587         264.75         27.00           52588         266.75         27.00           52589         268.75         27.00           52590         240.75         3.67           52591         240.75         5.33           52592         240.75         10.33           52593         240.75         10.33           52595         240.75         12.00           52596         240.75         13.67           52597         240.75         18.67           52698         240.75         18.67           52699         240.75         18.67           52600         240.75         20.03           52601         240.75         23.67           52602         240.75         23.67           52603         242.75         3.67           52604         242.75         3.67           52607         242.75         1.00           52608         242.75         10.33           52609         242.75         10.33           52601         242.75         10.0	51939 192.30 5.33 51940 192.30 7.00 51941 192.30 10.33 51943 192.30 12.00 51944 192.30 13.67 51945 192.30 15.33 51946 192.30 15.33 51948 192.30 20.33 51949 192.30 22.00 51950 192.30 25.33 51952 194.23 25.33 51952 194.23 7.00 51956 194.23 7.00 51956 194.23 10.33 51957 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 10.33 51959 194.23 12.00 51958 194.23 12.00 51958 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 12.00 51959 194.23 15.33 51950 194.23 20.33 51950 194.23 20.33 51950 195.15 5.33 51958 195.15 5.33 51958 195.15 5.33	53055         88.75         28.00           53056         86.75         28.00           53057         84.75         28.00           53058         82.75         28.00           53060         78.75         28.00           53061         76.75         28.00           53062         74.75         28.00           53064         70.75         28.00           53065         68.75         28.00           53066         68.75         28.00           53067         64.75         28.00           53068         62.75         28.00           53069         150.75         3.67           53070         150.75         5.33           53071         150.75         7.00           53072         150.75         10.33           53073         150.75         15.36           53074         150.75         15.36           53075         150.75         15.36           53078         150.75         15.30           53078         150.75         15.00           53078         150.75         15.00           53078         150.75         20.00	53638         240.75         29.00           53639         240.75         28.00           53640         210.75         29.00           53641         212.75         29.00           53642         214.75         29.00           53643         216.75         29.00           53644         218.75         29.00           53645         222.75         29.00           53647         224.75         29.00           53648         226.75         29.00           53650         230.75         29.00           53651         232.75         29.00           53652         234.75         29.00           53653         236.75         29.00           53654         238.75         29.00           53655         210.75         28.00           53657         23.00         53653         230.75         28.00           53658         238.75         28.00         53659         232.75         28.00           53659         232.75         28.00         53669         230.75         28.00           53669         232.75         28.00         53662         226.75         28.00

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20925 252.75 0.00	51335 100.00 28.00	52618 244.75 3.67	51972 196.15 13.67	53087 128.75 27.00	53671 270.75 28.00
20926 254.75 0.00	51336 90.75 29.00	52619 244.75 5.33	51973 196.15 15.33	53088 130.75 27.00	53672 242.75 29.00
20927 256.75 0.00	51337 98.15 29.00	52620 244.75 7.00	51974 196.15 17.00	53089 132.75 27.00	53673 244.75 29.00
20928 258.75 0.00	51338 96.30 29.00	52621 244.75 8.67	51975 196.15 18.67	53090 134.75 27.00	53674 246.75 29.00
20929 260.75 0.00	51339 94.45 29.00	52622 244.75 10.33	51976 196.15 20.33	53091 136.75 27.00	53675 248.75 29.00
20930 262.75 0.00	51340 92.60 29.00	52623 244.75 12.00	51977 196.15 22.00	53092 138.75 27.00	53676 250.75 29.00
20931 264.75 0.00	51341 90.75 27.00	52624 244.75 13.67	51978 196.15 23.67	53093 140.75 27.00	53677 252.75 29.00
20932 266.75 0.00	51342 90.75 28.00	52625 244.75 15.33	51979 196.15 25.33	53094 142.75 27.00	53678 254.75 29.00
20933 268.75 0.00	51343 92.60 27.00	52626 244.75 17.00	51980 198.08 3.67	53095 144.75 27.00	53679 256.75 29.00
20934 270.75 2.00	51344 94.45 27.00	52627 244.75 18.67	51981 198.08 5.33	53096 146.75 27.00	53680 258.75 29.00
20935 270.75 1.00	51345 96.30 27.00	52628 244.75 20.33	51982 198.08 7.00	53097 148.75 27.00	53681 260.75 29.00
20936 240.75 2.00	51346 98.15 27.00	52629 244.75 22.00	51983 198.08 8.67	53098 120.75 3.67	53682 262.75 29.00
20937 268.75 2.00	51347 98.15 28.00	52630 244.75 23.67	51984 198.08 10.33	53099 120.75 5.33	53683 264.75 29.00
20938 266.75 2.00	51348 96.30 28.00	52631 244.75 25.33	51985 198.08 12.00	53100 120.75 7.00	53684 266.75 29.00
20939 264.75 2.00	51349 94.45 28.00	52632 246.75 3.67	51986 198.08 13.67	53101 120.75 8.67	53685 268.75 29.00
20940 262.75 2.00	51350 92.60 28.00	52633 246.75 5.33	51987 198.08 15.33	53102 120.75 10.33	53686 268.75 28.00
20941 260.75 2.00	51351 60.75 27.00	52634 246.75 7.00	51988 198.08 17.00	53103 120.75 12.00	53687 266.75 28.00
20942 258.75 2.00	51352 60.75 3.67	52635 246.75 8.67	51989 198.08 18.67	53104 120.75 13.67	53688 264.75 28.00
20943 256.75 2.00	51353 60.75 5.33	52636 246.75 10.33	51990 198.08 20.33	53105 120.75 15.33	53689 262.75 28.00
20944 254.75 2.00 20945 252.75 2.00	51354 60.75 7.00	52637 246.75 12.00	51991 198.08 22.00	53106 120.75 17.00	53690 260.75 28.00
20946 250.75 2.00	51355 60.75 8.67 51356 60.75 10.33	52638 246.75 13.67 52639 246.75 15.33	51992 198.08 23.67	53107 120.75 18.67 53108 120.75 20.33	53691 258.75 28.00 53692 256.75 28.00
20947 248.75 2.00			51993 198.08 25.33	53109 120.75 20.33	53693 254.75 28.00
20948 246.75 2.00	51357 60.75 12.00 51358 60.75 13.67	52640 246.75 17.00 52641 246.75 18.67	51994 210.75 27.00 51995 210.75 3.67	53110 120.75 23.67	53694 252.75 28.00
20949 244.75 2.00	51359 60.75 15.33	52642 246.75 20.33	51996 210.75 5.33	53110 120.75 25.37	53695 250.75 28.00
20950 242.75 2.00	51360 60.75 17.00	52643 246.75 22.00	51997 210.75 7.00	53112 122.75 3.67	53696 248.75 28.00
20951 240.75 1.00	51361 60.75 18.67	52644 246.75 23.67	51998 210.75 8.67	53113 122.75 5.33	53697 246.75 28.00
20952 242.75 1.00	51362 60.75 20.33	52645 246.75 25.33	51999 210.75 10.33	53114 122.75 7.00	53698 244.75 28.00
20953 244.75 1.00	51363 60.75 22.00	52646 248.75 3.67	52000 210.75 12.00	53115 122.75 8.67	53699 242.75 28.00
20954 248.75 1.00	51364 60.75 23.67	52647 248.75 5.33	52001 210.75 13.67	53116 122.75 10.33	53700 300.00 29.00
20955 248.75 1.00	51365 60.75 25.33	52648 248.75 7.00	52002 210.75 15.33	53117 122.75 12.00	53701 300.00 28.00
20956 250.75 1.00	51366 32.75 27.00	52649 248.75 8.67	52003 210.75 17.00	53118 122.75 13.67	53702 272.70 29.00
20957 252.75 1.00	51367 34.75 27.00	52650 248.75 10.33	52004 210.75 18.67	53119 122.75 15.33	53703 274.65 29.00
20958 254.75 1.00	51368 36.75 27.00	52651 248.75 12.00	52005 210.75 20.33	53120 122.75 17.00	53704 276.60 29.00
20959 256.75 1.00	51369 38.75 27.00	52652 248.75 13.67	52006 210.75 22.00	53121 122.75 18.67	53705 278.55 29.00
20960 258.75 1.00	51370 40.75 27.00	52653 248.75 15.33	52007 210.75 23.67	53122 122.75 20.33	53706 280.50 29.00
20961 260.75 1.00	51371 42.75 27.00	52654 248.75 17.00	52008 210.75 25.33	53123 122.75 22.00	53707 282.45 29.00
20962 262.75 1.00	51372 44.75 27.00	52655 248.75 18.67	52009 201.50 27.00	53124 122.75 23.67	53708 284.40 29.00
20963 264.75 1.00	51373 46.75 27.00	52656 248.75 20.33	52010 203.35 27.00	53125 122.75 25.33	53709 286.35 29.00
20964 266.75 1.00	51374 48.75 27.00	52657 248.75 22.00	52011 205.20 27.00	53126 124.75 3.67	53710 288.30 29.00
20965 268.75 1.00	51375 50.75 27.00	52658 248.75 23.67	52012 207.05 27.00	53127 124.75 5.33	53711 290.25 29.00
20966 270.75 0.00	51376 52.75 27.00	52659 248.75 25.33	52013 208.90 27.00	53128 124.75 7.00	53712 292.20 29.00
20967 272.70 0.00	51377 54.75 27.00	52660 250.75 3.67	52014 201.50 3.67	53129 124.75 8.67	53713 294.15 29.00
20968 274.65 0.00	51378 56.75 27.00	52661 250.75 5.33	52015 201.50 5.33	53130 124.75 10.33	53714 296.10 29.00
20969 276.60 0.00	51379 58.75 27.00	52662 250.75 7.00	52016 201.50 7.00	53131 124.75 12.00	53715 298.05 29.00
20970 278.55 0.00	51380 30.75 3.67	52663 250.75 8.67	52017 201.50 8.67	53132 124.75 13.67	53716 298.05 28.00
20971 280.50 0.00	51381 30.75 5.33	52664 250.75 10.33	52018 201.50 10.33	53133 124.75 15.33	53717 296.10 28.00
20972 282.45 0.00	51382 30.75 7.00	52665 250.75 12.00	52019 201.50 12.00	53134 124.75 17.00	53718 294.15 28.00
20973 284.40 0.00	51383 30.75 8.67	52666 250.75 13.67	52020 201.50 13.67		
20974 286.35 0.00	51384 30.75 10.33	E0003 DE0 35 45 00		53135 124.75 18.67	53719 292.20 28.00
20975 288.30 0.00		52667 250.75 15.33	52021 201.50 15.33	53136 124.75 20.33	53720 290.25 28.00
	51385 30.75 12.00	52668 250.75 17.00	52021 201.50 15.33 52022 201.50 17.00	53136 124.75 20.33 53137 124.75 22.00	53720 290.25 28.00 53721 288.30 28.00
20976 290.25 0.00	51386 30.75 13.67	52668 250.75 17.00 52669 250.75 18.67	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 23.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00
20977 292.20 0.00	51386 30.75 13.67 51387 30.75 15.33	52668 250.75 17.00 52669 250.75 18.67 52670 250.75 20.33	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 23.67 53139 124.75 25.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00
20977 292.20 0.00 20978 294.15 0.00	51386 30.75 13.67 51387 30.75 15.33 51388 30.75 17.00	52668 250.75 17.00 52669 250.75 18.67 52670 250.75 20.33 52671 250.75 22.00	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 23.67 53139 124.75 25.33 53140 126.75 3.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00	51386 30.75 13.67 51387 30.75 15.33 51388 30.75 17.00 51389 30.75 18.67	52668 250.75 17.00 52669 250.75 18.67 52670 250.75 20.33 52671 250.75 22.00 52672 250.75 23.67	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 23.67	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 23.67 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20980 298.05 0.00	51386 30.75 13.67 51387 30.75 15.33 51388 30.75 17.00 51389 30.75 18.67 51390 30.75 20.33	52668 250.75 17.00 52669 250.75 18.67 52670 250.75 20.33 52671 250.75 22.00 52672 250.75 23.67 52673 250.75 25.33	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 23.67 52027 201.50 25.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.35 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 7.00	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20960 298.05 0.00 20981 270.75 2.00	51386 30.75 13.67 51387 30.75 15.33 51388 30.75 17.00 51389 30.75 18.67 51390 30.75 20.33 51391 30.75 22.00	52668 250.75 17.00 52669 250.75 18.67 52670 250.75 20.33 52671 250.75 22.00 52672 250.75 23.67 52673 250.75 25.33 52674 252.75 3.67	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 22.67 52027 201.50 25.33 52028 203.35 3.67	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.36 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33 53142 126.75 7.00 53143 126.75 8.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00 53727 276.60 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20980 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00	51386 30.75 13.67 51387 30.75 15.33 51388 30.75 17.00 51389 30.75 18.67 51390 30.75 22.00 51391 30.75 22.00 51392 30.75 23.67	52668 250.75 17.00 52669 250.75 18.67 52670 250.75 20.33 52671 250.75 22.00 52672 250.75 23.67 52673 250.75 25.33 52674 252.75 3.67 52675 252.75 5.33	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 23.67 52027 201.50 26.33 52028 203.35 3.67 52029 203.35 5.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33 53142 126.75 7.00 53143 126.75 8.67 53144 126.75 10.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20960 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00	51386     30.75     13.67       51387     30.75     15.33       51388     30.75     17.00       51389     30.75     18.67       51390     30.75     22.00       51392     30.75     23.67       51393     30.75     25.33	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     22.00       52672     250.75     23.67       52673     250.75     25.33       52674     252.75     3.67       52675     252.75     5.33       52676     252.75     7.00	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 23.67 52027 201.50 25.33 52028 203.35 3.67 52029 203.35 5.33 52030 203.35 7.00	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33 53142 126.75 7.00 53143 126.75 7.00 53144 126.75 10.33 53145 126.75 12.00	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20960 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00	51386     30.75     13.67       51387     30.75     15.33       51388     30.75     17.00       51389     30.75     18.67       51390     30.75     20.33       51391     30.75     23.67       51393     30.75     25.33       51394     32.75     3.67	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     22.00       52672     250.75     23.67       52673     250.75     25.33       52674     252.75     3.36       52675     252.75     5.33       52676     252.75     7.00       52677     252.75     8.67	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 23.67 52027 201.50 25.33 52028 203.35 3.67 52029 203.35 5.33 52030 203.35 7.00 52031 203.35 8.67	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 23.67 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33 53142 126.75 7.00 53143 126.75 8.67 53144 126.75 10.33 53145 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 276.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20960 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00	51386     30.75     13.67       51387     30.75     15.33       51388     30.75     17.00       51389     30.75     18.67       51390     30.75     20.33       51391     30.75     23.67       51392     30.75     25.33       51394     32.75     3.67       51395     32.75     5.33	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     23.67       52672     250.75     23.67       52673     250.75     25.33       52674     252.75     3.67       52675     252.75     5.33       52676     252.75     7.00       52677     252.75     8.67       52678     252.75     10.33	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 23.67 52027 201.50 25.33 52028 203.35 3.67 52029 203.35 5.33 52030 203.35 7.00	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 7.00 53142 126.75 8.67 53144 126.75 10.33 53145 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67 53147 126.75 15.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53730 201.50 29.00 53731 208.90 29.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20960 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00 20986 290.25 2.00	51386     30.75     13.67       51387     30.75     15.33       51388     30.75     17.00       51390     30.75     20.33       51391     30.75     22.00       51392     30.75     25.33       51393     30.75     25.33       51394     32.75     3.67       51395     32.75     5.33       51396     32.75     7.00	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     22.67       52672     250.75     23.67       52673     250.75     25.33       52674     252.75     5.33       52675     252.75     5.33       52676     252.75     7.00       52677     252.75     8.67       52678     252.75     10.33       52679     252.75     12.00	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 52026 201.50 22.67 52027 201.50 25.33 52028 203.35 3.67 52029 203.35 5.33 52030 203.35 7.00 52031 203.35 8.67 52032 203.35 10.33 52032 203.35 10.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53140 126.75 3.67 53140 126.75 3.67 53141 126.75 7.00 53143 126.75 8.67 53144 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67 53147 126.75 15.33 53147 126.75 15.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20960 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00	51386     30.75     13.67       51387     30.75     15.33       51388     30.75     17.00       51389     30.75     18.67       51390     30.75     20.33       51391     30.75     23.67       51392     30.75     25.33       51394     32.75     3.67       51395     32.75     5.33	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     23.67       52672     250.75     23.67       52673     250.75     25.33       52674     252.75     3.67       52675     252.75     5.33       52676     252.75     7.00       52677     252.75     8.67       52678     252.75     10.33	52021 201.50 15.33 52022 201.50 17.00 52023 201.50 18.67 52024 201.50 20.33 52025 201.50 22.00 62026 201.50 23.67 52027 201.50 25.33 52028 203.35 3.67 52029 203.35 5.33 52030 203.35 7.00 52031 203.35 8.67 52032 203.35 10.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 7.00 53142 126.75 8.67 53144 126.75 10.33 53145 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67 53147 126.75 15.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53730 201.50 29.00 53731 208.90 29.00
20977 292.20 0.00 20978 294.15 0.00 20969 298.05 0.00 20960 298.05 2.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00 20986 290.25 2.00 20987 288.30 2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51393         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         8.67	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.00           52672         250.75         23.67           52673         250.75         25.33           52674         252.75         5.33           52675         252.75         5.33           52676         252.75         7.00           52677         252.75         8.67           52678         252.75         10.93           52679         252.75         12.00           52680         252.75         13.67	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         22.00           52025         201.50         22.67           52027         201.50         25.33           52028         203.35         3.67           52029         203.35         7.00           52031         203.35         7.00           52032         203.35         10.33           52032         203.35         10.33           52033         203.35         12.00           52034         203.35         13.67	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53140 126.75 25.33 53140 126.75 5.33 53142 126.75 7.00 53143 126.75 10.33 53144 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67 53147 126.75 13.67 53148 126.75 15.33 53148 126.75 17.00 53149 126.75 18.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20980 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00 20986 290.25 2.00 20986 290.25 2.00 20987 288.30 2.00 20988 286.35 2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         22.33           51391         30.75         22.00           51392         30.75         23.67           51393         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         8.67           51398         32.75         10.33	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     22.00       52672     250.75     25.36       52673     250.75     25.33       52674     252.75     5.33       52675     252.75     7.00       52677     252.75     8.67       52678     252.75     10.33       52679     252.75     12.00       52680     252.75     13.67       52681     252.75     15.33	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         22.60           52026         201.50         25.33           52027         201.50         25.33           52028         203.35         3.67           52039         203.35         7.00           52031         203.35         8.67           52032         203.35         10.33           52033         203.35         12.00           52034         203.35         13.67           52035         203.35         13.67           52036         203.35         13.67           52037         203.35         13.67           52038         203.35         13.67           52039         203.35         15.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33 53142 126.75 7.00 53143 126.75 8.67 53144 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67 53147 126.75 13.67 53148 126.75 15.33 53148 126.75 15.33 53148 126.75 15.33 53148 126.75 15.33 53148 126.75 15.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53725 280.50 28.00 53726 278.55 28.00 53726 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53733 205.20 29.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20980 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00 20986 290.25 2.00 20987 288.30 2.00 20988 286.35 2.00 20989 284.40 2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         5.33           51397         32.75         8.67           51398         32.75         10.33           51399         32.75         10.33           51399         32.75         12.00	52668     250.75     17.00       52669     250.75     18.67       52670     250.75     20.33       52671     250.75     22.00       52672     250.75     23.67       52673     250.75     25.33       52674     252.75     5.33       52675     252.75     7.00       52676     252.75     8.67       52678     252.75     10.33       52679     252.75     13.67       52681     252.75     15.33       52682     252.75     17.00	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52030         203.35         5.33           52030         203.35         7.00           52031         203.35         10.33           52032         203.35         12.00           52034         203.35         13.67           52035         203.35         13.67           52036         203.35         13.67           52037         203.35         13.67           52038         203.35         13.67           52035         203.35         13.67           52035         203.35         13.67           52035         203.35         13.67           52036         203.35         13.67           52037         203.35         13.67           52038         203.35         13.67           52039         203.35         13.67	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 23.67 53139 124.75 25.33 53140 128.75 5.33 53141 126.75 7.00 53143 126.75 8.67 53144 126.75 10.33 53145 126.75 10.33 53146 126.75 15.33 53147 126.75 15.33 53148 126.75 17.00 53149 126.75 18.67 53150 126.75 20.33 53151 126.75 22.00	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 205.20 29.00 53734 203.35 29.00 53735 201.50 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20980 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20983 296.10 2.00 20984 294.15 2.00 20985 292.20 2.00 20986 290.25 2.00 20987 288.30 2.00 20988 286.35 2.00 20988 286.35 2.00 20989 284.40 2.00 20990 282.45 2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         20.33           51390         30.75         22.00           51392         30.75         23.67           51393         30.75         25.33           51394         32.75         3.67           51395         32.75         7.00           51396         32.75         7.00           51398         32.75         10.33           51399         32.75         12.00           51400         32.75         13.67	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         23.67           52672         250.75         23.67           52673         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         8.67           52678         252.75         10.33           52679         252.75         13.67           52680         252.75         15.33           52681         252.75         17.00           52683         252.75         18.67	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         7.00           52031         203.35         10.33           52032         203.35         12.00           52034         203.35         13.67           52035         203.35         13.67           52036         203.35         13.67           52037         203.35         13.67           52038         203.35         13.67           52036         203.35         13.67           52037         203.35         13.67           52036         203.35         13.67           52037         203.35         13.67           52036         203.35         15.33           52037         203.35         15.33           52037         203.35         15.30	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53139 124.75 25.33 53140 126.75 3.67 53141 126.75 7.00 53142 126.75 8.67 53144 126.75 10.33 53145 126.75 10.33 53146 126.75 15.36 53147 126.75 15.33 53148 126.75 17.00 53148 126.75 17.00 53149 126.75 18.67 53150 126.75 20.33 53151 126.75 22.00 53152 126.75 23.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53730 201.50 29.00 53732 272.70 28.00 53732 207.05 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53735 201.50 28.00 53735 201.50 28.00 53735 201.50 28.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20960         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20983         296.10         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20988         284.40         2.00           20998         284.40         2.00           20990         282.45         2.00           20991         280.50         2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51390         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51393         30.75         25.33           51395         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         10.33           51398         32.75         10.33           51399         32.75         10.33           51390         32.75         15.33	52668       250.75       17.00         52669       250.75       18.67         52670       250.75       20.33         52671       250.75       22.67         52672       250.75       23.67         52673       250.75       25.33         52674       252.75       5.33         52675       252.75       5.33         52676       252.75       8.67         52678       252.75       10.33         52679       252.75       12.00         52680       252.75       15.33         52682       252.75       17.00         52682       252.75       18.67         52684       252.75       18.67         52684       252.75       20.33	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         5.33           52030         203.35         7.00           52031         203.35         7.00           52032         203.35         10.33           52032         203.35         12.00           52034         203.35         15.33           52035         203.35         15.33           52036         203.35         15.33           52037         203.35         15.33           52036         203.35         15.33           52037         203.35         15.33           52037         203.35         15.33           52037         203.35         15.33           52037         203.35         15.33           52037         203.35         15.33           52038         203.35         15.33	53136 124.75 20.33 53137 124.75 22.00 53138 124.75 25.33 53140 126.75 3.67 53141 126.75 5.33 53142 126.75 7.00 53143 126.75 10.33 53144 126.75 10.33 53145 126.75 12.00 53146 126.75 13.67 53147 126.75 15.33 53148 126.75 15.33 53148 126.75 17.00 53149 126.75 18.67 53150 126.75 20.33 53151 126.75 20.33 53152 126.75 23.67 53153 126.75 25.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53728 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53736 208.90 28.00 53737 207.05 28.00
20977         292.20         0.00           20978         294.15         0.00           20969         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20983         296.10         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20988         286.35         2.00           20999         282.45         2.00           20991         280.50         2.00           20992         278.55         2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51399         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51393         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         8.67           51398         32.75         10.33           51400         32.75         15.33           51401         32.75         15.33           51402         32.75         15.00	52668       250.75       17.00         52669       250.75       18.67         52670       250.75       20.33         52671       250.75       22.00         52672       250.75       25.33         52673       250.75       25.33         52674       252.75       5.33         52675       252.75       7.00         52677       252.75       10.33         52679       252.75       12.00         52680       252.75       15.33         52681       252.75       15.33         52682       252.75       18.67         52684       252.75       18.67         52685       252.75       20.33         52685       252.75       20.00	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         22.67           52026         201.50         25.33           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         7.00           52031         203.35         10.33           52032         203.35         12.00           52034         203.35         15.33           52035         203.35         17.00           52036         203.35         17.00           52037         203.35         17.00           52037         203.35         17.00           52037         203.35         17.00           52037         203.35         10.33           52038         203.35         10.33           52039         203.35         10.33           52037         203.35         10.33           52038         203.35         10.33           52039         203.35         10.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         25.33           53140         126.75         3.67           53141         126.75         5.33           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         12.00           53145         126.75         13.67           53146         126.75         15.33           53147         126.75         15.33           53148         126.75         17.00           53149         126.75         20.33           53150         126.75         22.00           53152         126.75         23.67           53152         126.75         25.33           53153         126.75         25.33           53154         128.75         25.33           53153         36.75         25.33           53154         128.75         25.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53739 272.70 28.00 53731 208.90 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53737 207.05 28.00 53737 207.05 28.00 53737 207.05 28.00
20977 292.20 0.00 20978 294.15 0.00 20979 296.10 0.00 20980 298.05 0.00 20981 270.75 2.00 20982 298.05 2.00 20984 294.15 2.00 20985 292.20 2.00 20986 290.25 2.00 20986 290.25 2.00 20987 288.30 2.00 20988 286.35 2.00 20989 284.40 2.00 20990 282.45 2.00 20991 280.50 2.00 20993 276.60 2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         18.67           51399         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         10.33           51398         32.75         10.33           51399         32.75         13.67           51400         32.75         13.67           51402         32.75         17.00           51403         32.75         17.00           51403         32.75         18.67	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.00           52672         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         7.00           52677         252.75         8.67           52679         252.75         12.00           52680         252.75         13.67           52681         252.75         15.33           52682         252.75         18.67           52683         252.75         20.33           52684         252.75         20.33           52685         252.75         22.00           52686         252.75         23.67	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         22.00           52025         201.50         22.67           52027         201.50         25.33           52028         203.35         5.33           52030         203.35         7.00           52031         203.35         7.00           52032         203.35         10.33           52032         203.35         12.00           52034         203.35         15.33           52035         203.35         17.00           52036         203.35         17.00           52037         203.35         18.67           52038         203.35         17.00           52039         203.35         12.00           52038         203.35         12.00           52039         203.35         12.00           52039         203.35         12.00           52039         203.35         12.00           52039         203.35         12.00           52039         203.35         12.00	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         23.67           53139         124.75         25.33           53140         126.75         3.67           53141         126.75         7.00           53142         126.75         10.33           53144         126.75         12.00           53144         126.75         12.07           53145         126.75         13.67           53147         126.75         15.33           53148         126.75         17.00           53149         126.75         18.67           53150         126.75         20.33           53151         126.75         23.67           53153         126.75         25.33           53154         128.75         5.33           53155         128.75         5.33           53155         128.75         5.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53738 205.20 28.00 53738 205.20 28.00 53738 205.20 28.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20980         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20983         296.10         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20988         286.35         2.00           20999         284.40         2.00           20991         280.50         2.00           20992         278.55         2.00           20994         276.60         2.00           20994         274.65         2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         22.00           51391         30.75         22.00           51392         30.75         23.67           51393         30.75         25.33           51394         32.75         5.33           51395         32.75         7.00           51397         32.75         7.00           51398         32.75         10.33           51399         32.75         12.00           51400         32.75         13.67           51401         32.75         17.00           51403         32.75         17.00           51403         32.75         18.67           51404         32.75         18.67           51404         32.75         10.33	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.00           52672         250.75         25.36           52673         250.75         25.33           52674         252.75         5.33           52675         252.75         5.33           52676         252.75         7.00           52677         252.75         10.33           52678         252.75         12.00           52680         252.75         15.33           52681         252.75         15.33           52682         252.75         18.67           52683         252.75         13.67           52684         252.75         13.67           52684         252.75         20.33           52685         252.75         22.00           52686         252.75         23.67           52687         252.75         23.67           52687         252.75         25.33	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52030         203.35         5.33           52031         203.35         7.00           52031         203.35         10.33           52032         203.35         12.00           52034         203.35         13.67           52035         203.35         17.00           52036         203.35         17.00           52037         203.35         17.00           52038         203.35         17.00           52039         203.35         12.00           52030         203.35         12.00           52031         203.35         12.00           52032         203.35         12.00           52033         203.35         12.00           52034         203.35         12.00           52040         203.35         23.30	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         25.33           53140         128.75         5.33           53141         126.75         5.33           53142         126.75         8.67           53143         126.75         8.67           53144         126.75         10.33           53145         126.75         13.67           53146         126.75         15.33           53147         126.75         15.33           53148         126.75         17.00           53149         126.75         17.00           53149         126.75         12.02           53149         126.75         15.33           53149         126.75         12.02           53150         126.75         20.33           53151         126.75         23.67           53152         126.75         25.33           53154         128.76         3.67           53155         128.75         5.33           53156         128.75         7.00	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53722 286.35 28.00 53723 284.40 28.00 53725 280.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 207.05 29.00 53734 203.35 29.00 53736 208.90 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53739 203.35 29.00 53739 203.35 28.00 53739 203.35 28.00 53730 203.35 28.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20980         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20988         286.35         2.00           20999         284.40         2.00           20991         280.50         2.00           20992         278.55         2.00           20994         274.65         2.00           20994         274.65         2.00           20995         272.70         2.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         22.03           51391         30.75         22.00           51392         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         5.67           51397         32.75         8.67           51398         32.75         10.33           51399         32.75         12.00           51400         32.75         15.33           51402         32.75         15.33           51402         32.75         15.33           51404         32.75         18.67           51404         32.75         18.67           51404         32.75         20.33           51405         32.75         20.03	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         23.67           52672         250.75         23.67           52673         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         8.67           52678         252.75         10.93           52679         252.75         13.67           52680         252.75         15.33           52681         252.75         17.00           52682         252.75         17.00           52683         252.75         20.33           52684         252.75         20.33           52686         252.75         25.36           52687         252.75         25.33           52688         254.75         25.33           52688         254.75         3.67	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         7.00           52031         203.35         10.93           52032         203.35         12.00           52034         203.35         13.67           52035         203.35         13.67           52036         203.35         17.00           52037         203.35         17.00           52038         203.35         18.67           52039         203.35         12.03           52039         203.35         20.33           52039         203.35         22.00           52040         203.35         22.00           52041         203.35         25.33           52042         203.35         25.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         25.33           53140         126.75         3.67           53141         126.75         5.33           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         10.33           53145         126.75         10.36           53146         126.75         15.36           53147         126.75         15.33           53148         126.75         17.00           53149         126.75         18.67           53150         126.75         20.33           53151         126.75         23.67           53152         126.75         25.33           53151         126.75         25.33           53154         128.75         3.67           53155         128.75         5.33           53156         128.75         5.33           53157         128.75         8.67	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53722 286.35 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 274.65 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53738 205.20 28.00 53739 203.35 28.00 53740 32.75 29.00 53740 32.75 29.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20980         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20988         286.35         2.00           20988         286.35         2.00           20998         284.40         2.00           20991         280.50         2.00           20992         278.55         2.00           20992         276.60         2.00           20994         274.65         2.00           20995         272.70         2.00           20996         270.75         1.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51390         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51393         30.75         25.33           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         10.33           51398         32.75         10.33           51399         32.75         13.67           51400         32.75         15.33           51401         32.75         15.33           51402         32.75         17.00           51403         32.75         18.67           51404         32.75         12.00           51405         32.75         15.33           51406         32.75         20.33           51405         32.75         22.00           51406         32.75         22.00           51406         32.75         22.00           51406         32.75         23.67	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.36           52672         250.75         23.67           52673         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         8.67           52678         252.75         10.93           52679         252.75         12.00           52680         252.75         15.33           52681         252.75         15.33           52682         252.75         18.67           52683         252.75         18.67           52684         252.75         20.03           52685         252.75         22.00           52686         252.75         25.33           52688         254.75         25.33           52688         254.75         25.33           52689         254.75         5.33	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         7.00           52031         203.35         10.33           52032         203.35         13.67           52032         203.35         15.33           52033         203.35         15.33           52034         203.35         15.33           52036         203.35         15.33           52037         203.35         16.67           52038         203.35         20.03           52039         203.35         20.03           52040         203.35         20.00           52041         203.35         23.67           52042         205.20         5.33           52042         205.20         5.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         23.67           53139         124.75         25.33           53140         126.75         3.67           53141         126.75         7.00           53143         126.75         10.33           53144         126.75         10.33           53145         126.75         13.67           53146         126.75         15.33           53148         126.75         15.33           53149         126.75         18.67           53150         126.75         20.33           53151         126.75         23.67           53152         126.75         23.67           53153         126.75         25.33           53154         128.75         5.33           53155         128.75         5.30           53157         128.75         5.00           53157         128.75         5.00           53157         128.75         8.67           53158         128.75         10.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 207.05 29.00 53734 203.35 29.00 53734 203.35 29.00 53736 208.90 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53739 203.35 28.00 53739 203.35 28.00 53740 32.75 29.00 53741 34.75 29.00 53741 34.75 29.00
20977         292.20         0.00           20978         294.15         0.00           20969         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20983         296.10         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20988         286.35         2.00           20998         284.40         2.00           20991         280.50         2.00           20992         278.55         2.00           20993         276.60         2.00           20994         274.65         2.00           20995         272.70         2.00           20996         270.75         1.00           20997         272.70         1.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         10.33           51398         32.75         10.33           51400         32.75         15.33           51401         32.75         15.03           51402         32.75         17.00           51403         32.75         18.67           51404         32.75         18.67           51404         32.75         17.00           51403         32.75         18.67           51404         32.75         20.33           51406         32.75         20.33           51406         32.75         20.35           51406         32.75         23.67           51407         32.75         23.67           51	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.00           52672         250.75         25.33           52673         250.75         25.33           52674         252.75         5.33           52675         252.75         5.33           52676         252.75         8.67           52678         252.75         10.03           52689         252.75         13.67           52681         252.75         15.33           52682         252.75         18.67           52683         252.75         18.67           52684         252.75         20.33           52685         252.75         20.03           52686         252.75         25.03           52687         252.75         25.33           52688         252.75         25.33           52687         252.75         25.33           52689         254.75         3.67           52689         254.75         3.3           52689         254.75         3.3      <	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         5.33           52030         203.35         7.00           52031         203.35         7.00           52032         203.35         12.00           52033         203.35         15.33           52032         203.35         15.00           52034         203.35         15.30           52035         203.35         15.33           52036         203.35         15.00           52037         203.35         15.00           52037         203.35         15.00           52038         203.35         12.00           52039         203.35         12.00           52037         203.35         12.00           52038         203.35         20.00           52040         203.35         20.00           52041         203.35         25.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         25.33           53140         126.75         3.67           53141         126.75         3.67           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         12.00           53146         126.75         13.67           53147         126.75         15.33           53148         126.75         15.33           53149         126.75         18.67           53150         126.75         20.33           53151         126.75         23.36           53152         126.75         23.36           53153         126.75         25.33           53154         128.75         5.33           53155         128.75         5.33           53156         128.75         7.00           53157         128.75         8.67           53158         128.75         10.33           53159         128.75         10.33           53159         128.75         10.30 <td>53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 286.40 28.00 53724 282.45 28.00 53725 260.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53739 203.35 20.00 53739 203.35 20.00 53740 32.75 29.00 53741 34.75 29.00 53742 36.75 29.00 53743 38.75 29.00</td>	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 286.40 28.00 53724 282.45 28.00 53725 260.50 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53728 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53739 203.35 20.00 53739 203.35 20.00 53740 32.75 29.00 53741 34.75 29.00 53742 36.75 29.00 53743 38.75 29.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20980         298.05         2.00           20981         270.75         2.00           20982         298.05         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20989         284.40         2.00           20991         282.45         2.00           20991         280.55         2.00           20992         278.55         2.00           20994         274.65         2.00           20995         272.70         2.00           20997         272.70         1.00           20997         272.70         1.00           20998         274.65         1.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         18.67           51399         30.75         20.33           51391         30.75         22.00           51392         30.75         25.33           51394         32.75         3.67           51395         32.75         5.33           51396         32.75         7.00           51397         32.75         10.33           51398         32.75         10.33           51399         32.75         15.33           51400         32.75         15.33           51402         32.75         17.00           51403         32.75         18.67           51404         32.75         20.33           51405         32.75         20.33           51406         32.75         22.00           51407         32.75         25.33           51408         32.75         25.33           51407         32.75         25.33           51408         32.75         25.33           51407         32.75         25.33           51	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.00           52672         250.75         25.33           52673         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         8.67           52677         252.75         10.33           52679         252.75         13.67           52680         252.75         15.33           52681         252.75         15.33           52682         252.75         17.00           52683         252.75         20.03           52684         252.75         20.03           52685         252.75         23.67           52686         252.75         25.33           52687         252.75         25.33           52688         254.75         5.33           52690         254.75         5.33           52690         254.75         5.33           52691         254.75         8.67 <td>52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         23.67           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         5.33           52031         203.35         12.00           52032         203.35         12.00           52033         203.35         12.00           52034         203.35         15.33           52035         203.35         17.00           52036         203.35         17.00           52037         203.35         18.67           52038         203.35         20.33           52039         203.35         20.33           52040         203.35         20.33           52041         203.35         23.67           52042         205.20         3.67           52042         205.20         5.33           52044         205.20         5.33</td> <td>53136         124.75         20.33           53137         124.75         22.00           53138         124.75         25.33           53140         126.75         25.33           53141         126.75         5.67           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         12.00           53145         126.75         12.00           53146         126.75         13.87           53147         126.75         12.00           53148         126.75         18.67           53149         126.75         18.67           53150         126.75         20.33           53151         126.75         22.00           53152         126.75         23.67           53153         126.75         23.67           53153         126.75         5.33           53154         128.75         5.33           53155         128.75         5.33           53156         128.75         10.33           53159         128.75         10.33           53159         128.75         10.33</td> <td>53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 29.00 53738 205.20 29.00 53739 203.35 28.00 53739 203.35 28.00 53740 32.75 29.00 53741 34.75 29.00 53743 38.75 29.00 53743 38.75 29.00 53744 40.75 29.00</td>	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         23.67           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         5.33           52031         203.35         12.00           52032         203.35         12.00           52033         203.35         12.00           52034         203.35         15.33           52035         203.35         17.00           52036         203.35         17.00           52037         203.35         18.67           52038         203.35         20.33           52039         203.35         20.33           52040         203.35         20.33           52041         203.35         23.67           52042         205.20         3.67           52042         205.20         5.33           52044         205.20         5.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         25.33           53140         126.75         25.33           53141         126.75         5.67           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         12.00           53145         126.75         12.00           53146         126.75         13.87           53147         126.75         12.00           53148         126.75         18.67           53149         126.75         18.67           53150         126.75         20.33           53151         126.75         22.00           53152         126.75         23.67           53153         126.75         23.67           53153         126.75         5.33           53154         128.75         5.33           53155         128.75         5.33           53156         128.75         10.33           53159         128.75         10.33           53159         128.75         10.33	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53734 203.35 29.00 53735 201.50 28.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 29.00 53738 205.20 29.00 53739 203.35 28.00 53739 203.35 28.00 53740 32.75 29.00 53741 34.75 29.00 53743 38.75 29.00 53743 38.75 29.00 53744 40.75 29.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20980         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20989         284.40         2.00           20990         282.45         2.00           20991         280.50         2.00           20992         278.55         2.00           20993         276.60         2.00           20994         274.65         2.00           20995         272.70         2.00           20996         270.75         1.00           20998         274.65         1.00           20999         276.60         1.00           20999         276.60         1.00	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         18.67           51399         30.75         22.00           51391         30.75         22.00           51392         30.75         23.67           51393         30.75         25.33           51394         32.75         3.67           51395         32.75         7.00           51397         32.75         10.33           51398         32.75         10.33           51399         32.75         13.67           51400         32.75         13.67           51401         32.75         15.33           51402         32.75         17.00           51403         32.75         20.33           51404         32.75         20.33           51405         32.75         22.00           51406         32.75         25.33           51408         32.75         25.33           51408         32.75         25.33           51408         34.75         3.67           51409         34.75         3.67           514	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         22.00           52672         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         5.33           52677         252.75         8.67           52678         252.75         12.00           52680         252.75         12.00           52681         252.75         15.33           52682         252.75         17.00           52683         252.75         17.00           52684         252.75         12.00           52685         252.75         12.00           52686         252.75         20.33           52687         252.75         20.03           52688         252.75         23.67           52689         254.75         25.33           52689         254.75         5.33           52690         254.75         7.00           52691         254.75         7.00	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52030         203.35         5.33           52030         203.35         10.33           52031         203.35         12.00           52032         203.35         13.67           52033         203.35         12.00           52034         203.35         13.67           52035         203.35         17.00           52036         203.35         17.00           52037         203.35         18.67           52038         203.35         12.00           52039         203.35         12.00           52030         203.35         12.00           52031         203.35         12.00           52042         203.35         13.67           52043         203.35         22.30           52044         203.35         25.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         23.67           53139         124.75         25.33           53140         126.75         5.33           53141         126.75         7.00           53143         126.75         8.67           53144         126.75         10.33           53145         126.75         10.36           53146         126.75         15.33           53147         126.75         15.03           53148         126.75         17.00           53149         126.75         18.67           53149         126.75         20.33           53151         126.75         20.33           53151         126.75         23.67           53152         126.75         25.33           53153         128.75         25.33           53155         128.75         3.67           53155         128.75         10.33           53157         128.75         10.33           53159         128.75         10.33           53159         128.75         10.36	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53722 286.35 28.00 53723 284.40 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 207.05 29.00 53734 203.35 29.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53738 205.20 28.00 53739 203.35 29.00 53739 203.35 28.00 53740 32.75 29.00 53741 34.75 29.00 53743 38.75 29.00 53744 40.75 29.00 53745 42.75 29.00
20977         292.20         0.00           20978         294.15         0.00           20979         296.10         0.00           20980         298.05         0.00           20981         270.75         2.00           20982         298.05         2.00           20984         294.15         2.00           20985         292.20         2.00           20986         290.25         2.00           20987         288.30         2.00           20988         286.35         2.00           20999         284.40         2.00           20991         280.50         2.00           20992         278.55         2.00           20994         274.65         2.00           20995         272.70         2.00           20996         270.75         1.00           20997         272.70         1.00           20999         276.60         1.00           20999         276.60         1.00           20999         276.60         1.00           20999         276.60         1.00           20999         276.60         1.00 <td< td=""><td>51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         22.00           51391         30.75         22.00           51392         30.75         23.67           51393         30.75         25.33           51394         32.75         5.33           51395         32.75         7.00           51397         32.75         7.00           51398         32.75         10.33           51399         32.75         12.00           51400         32.75         13.67           51401         32.75         15.33           51402         32.75         17.00           51403         32.75         18.67           51404         32.75         20.33           51405         32.75         20.00           51406         32.75         25.33           51407         32.75         25.33           51408         34.75         25.33           51409         34.75         5.33           51409         34.75         5.33           5140</td><td>52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         23.67           52672         250.75         23.67           52673         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         8.67           52678         252.75         10.33           52679         252.75         13.67           52680         252.75         15.33           52681         252.75         17.00           52682         252.75         18.67           52683         252.75         20.33           52686         252.75         23.67           52687         252.75         25.33           52688         252.75         25.33           52689         254.75         3.67           52699         254.75         5.33           52690         254.75         6.33           52691         254.75         10.33           52693         254.75         10.33</td><td>52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         7.00           52031         203.35         10.93           52032         203.35         12.00           52032         203.35         13.67           52032         203.35         13.67           52033         203.35         17.00           52036         203.35         17.00           52037         203.35         18.67           52038         203.35         12.00           52039         203.35         12.03           52030         203.35         22.00           52031         203.35         22.00           52042         203.35         23.67           52043         203.35         25.33           52042         203.35         25.33</td><td>53136         124.75         20.33           53137         124.75         22.00           53138         124.75         23.67           53139         124.75         25.33           53140         126.75         5.33           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         10.33           53145         126.75         10.36           53146         126.75         13.67           53147         126.75         15.33           53148         126.75         18.67           53149         126.75         18.67           53149         126.75         20.33           53149         126.75         22.00           53150         126.75         23.67           53151         126.75         25.33           53151         126.75         25.33           53154         128.75         3.67           53155         128.75         5.33           53157         128.75         10.33           53159         128.75         10.03           53161         128.75         10.03</td><td>53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53722 286.35 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53738 205.20 28.00 53739 203.35 28.00 53739 203.35 28.00 53740 32.75 29.00 53741 34.75 29.00 53743 38.75 29.00 53744 40.75 29.00 53744 40.75 29.00</td></td<>	51386         30.75         13.67           51387         30.75         15.33           51388         30.75         17.00           51389         30.75         22.00           51391         30.75         22.00           51392         30.75         23.67           51393         30.75         25.33           51394         32.75         5.33           51395         32.75         7.00           51397         32.75         7.00           51398         32.75         10.33           51399         32.75         12.00           51400         32.75         13.67           51401         32.75         15.33           51402         32.75         17.00           51403         32.75         18.67           51404         32.75         20.33           51405         32.75         20.00           51406         32.75         25.33           51407         32.75         25.33           51408         34.75         25.33           51409         34.75         5.33           51409         34.75         5.33           5140	52668         250.75         17.00           52669         250.75         18.67           52670         250.75         20.33           52671         250.75         23.67           52672         250.75         23.67           52673         250.75         25.33           52674         252.75         3.67           52675         252.75         5.33           52676         252.75         8.67           52678         252.75         10.33           52679         252.75         13.67           52680         252.75         15.33           52681         252.75         17.00           52682         252.75         18.67           52683         252.75         20.33           52686         252.75         23.67           52687         252.75         25.33           52688         252.75         25.33           52689         254.75         3.67           52699         254.75         5.33           52690         254.75         6.33           52691         254.75         10.33           52693         254.75         10.33	52021         201.50         15.33           52022         201.50         17.00           52023         201.50         18.67           52024         201.50         20.33           52025         201.50         23.67           52027         201.50         25.33           52028         203.35         3.67           52029         203.35         5.33           52030         203.35         7.00           52031         203.35         10.93           52032         203.35         12.00           52032         203.35         13.67           52032         203.35         13.67           52033         203.35         17.00           52036         203.35         17.00           52037         203.35         18.67           52038         203.35         12.00           52039         203.35         12.03           52030         203.35         22.00           52031         203.35         22.00           52042         203.35         23.67           52043         203.35         25.33           52042         203.35         25.33	53136         124.75         20.33           53137         124.75         22.00           53138         124.75         23.67           53139         124.75         25.33           53140         126.75         5.33           53142         126.75         7.00           53143         126.75         10.33           53144         126.75         10.33           53145         126.75         10.36           53146         126.75         13.67           53147         126.75         15.33           53148         126.75         18.67           53149         126.75         18.67           53149         126.75         20.33           53149         126.75         22.00           53150         126.75         23.67           53151         126.75         25.33           53151         126.75         25.33           53154         128.75         3.67           53155         128.75         5.33           53157         128.75         10.33           53159         128.75         10.03           53161         128.75         10.03	53720 290.25 28.00 53721 288.30 28.00 53722 286.35 28.00 53722 286.35 28.00 53724 282.45 28.00 53726 278.55 28.00 53727 276.60 28.00 53728 274.65 28.00 53729 272.70 28.00 53730 201.50 29.00 53731 208.90 29.00 53732 207.05 29.00 53732 207.05 29.00 53733 205.20 29.00 53734 203.35 29.00 53736 208.90 28.00 53737 207.05 28.00 53738 205.20 28.00 53738 205.20 28.00 53739 203.35 28.00 53739 203.35 28.00 53740 32.75 29.00 53741 34.75 29.00 53743 38.75 29.00 53744 40.75 29.00 53744 40.75 29.00

21003	284.40	1.00	51413	34.75 12.00	52696 254.75 17.00	52050 205.20 17.00	53165 128.75 22.00	53749 50.75 29.00
21004	286.35	1.00	51414	34.75 13.67	52697 254.75 18.67	52051 205.20 18.67	53166 128.75 23.67	53750 52.75 29.00
21005	288.30	1.00	51415	34.75 15.33	52698 254.75 20.33	52052 205.20 20.33	53167 128.75 25.33	53751 54.75 29.00
21006	290.25	1.00	51416	34.75 17.00	52699 254.75 22.00	52053 205.20 22.00	53168 130.75 3.67	53752 56.75 29.00
21007	292.20	1.00	51417	34.75 18.67	52700 254.75 23.67	52054 205.20 23.67	53169 130.75 5.33	53753 58.75 29.00
21008	294.15	1.00	51418	34.75 20.33	52701 254.75 25.33	52055 205.20 25.33	53170 130.75 7.00	53754 58.75 28.00
21009	296.10	1.00	51419	34.75 22.00	52702 256.75 3.67	52056 207.05 3.67	53171 130.75 8.67	53755 56.75 28.00
21010	298.05	1.00	51420	34.75 23.67	52703 256.75 5.33	52057 207.05 5.33	53172 130.75 10.33	53756 54.75 28.00
21011	30.75	0.00	51421	34.75 25.33	52704 256.75 7.00	52058 207.05 7.00	53173 130.75 12.00	53757 52.75 28.00
21012	3.45	0.00	51422	36.75 3.67	52705 256.75 8.67	52059 207.05 8.67	53174 130.75 13.67	53758 50.75 28.00
21013	5.40	0.00	51423	36.75 5.33	52706 256.75 10.33	52060 207.05 10.33	53175 130.75 15.33	53759 48.75 28.00
21014	7.35	0.00	51424	36.75 7.00	52707 256.75 12.00	52061 207.05 12.00	53176 130.75 17.00	53760 48.75 28.00
21015	9.30	0.00	51425	36.75 8.67	52708 256.75 13.67	52062 207.05 13.67	53177 130.75 18.67	53761 44.75 28.00
21016	11.25	0.00	51426	36.75 10.33	52709 256.75 15.33	52063 207.05 15.33	53178 130.75 20.33	53762 42.75 28.00
21017	13.20	0.00	51427	36.75 12.00	52710 256.75 17.00	52064 207.05 17.00	53179 130.75 22.00	53763 40.75 28.00
21018	15.15	0.00	51428	36.75 13.67	52711 256.75 18.67	52065 207.05 18.67	53180 130.75 23.67	53764 38.75 28.00
21019	17.10	0.00	51429	36.75 15.33	52712 256.75 20.33	52066 207.05 20.33	53181 130.75 25.33	53765 36.75 28.00
21020	19.05	0.00	51430	36.75 17.00	52713 256.75 22.00	52067 207.05 22.00	53182 132.75 3.67	53766 34.75 28.00
21021	21.00	0.00	51431	36.75 18.67	52714 256.75 23.67	52068 207.05 23.67	53183 132.75 5.33	53767 32.75 28.00
21022	22.95	0.00	51432	36.75 20.33	52715 256.75 25.33	52069 207.05 25.33	53184 132.75 7.00	53768 200.00 29.00
21023	24.90	0.00	51433	36.75 22.00	52716 258.75 3.67	52070 208.90 3.67	53185 132.75 8.67	53769 200.00 28.00
21024	26.85	0.00	51434	36.75 23.67	52717 258.75 5.33	52071 208.90 5.33	53186 132.75 10.33	53770 182.68 29.00
21025	28.80	0.00	51435	36.75 25.33	52718 258.75 7.00	52072 208.90 7.00	53187 132.75 12.00	53771 184.60 29.00
21026	30.75	2.00	51436	38.75 3.67	52719 258.75 8.67	52073 208.90 8.67	53188 132.75 13.67	53772 186.53 29.00
21027	30.75	1.00	51437	38.75 5.33	52720 258.75 10.33	52074 208.90 10.33	53189 132,75 15.33	53773 188.45 29.00
21028	3.45	2.00	51438	38.75 7.00	52721 258.75 12.00	52075 208.90 12.00	53190 132.75 17.00	53774 190.38 29.00
21029	5.40	2.00	51439	38.75 8.67	52722 258.75 13.67	52076 208.90 13.67	53191 132.75 18.67	53775 192.30 29.00
21030	7.35	2.00	51440	38.75 10.33	52723 258.75 15.33	52077 208.90 15.33	53192 132.75 20.33	53776 194.23 29.00
21031	9.30	2.00	51441	38.75 12.00	52724 258.75 17.00	52078 208.90 17.00	53193 132.75 22.00	53777 196.15 29.00
21032	11.25	2.00	51442	38.75 13.67	52725 258.75 18.67	52079 208.90 18.67	53194 132.75 23.67	53778 198.08 29.00
21033	13.20	2.00	51443	38.75 15.33	52726 258.75 20.33	52080 208.90 20.33	53195 132.75 25.33	53779 198.08 28.00
21034	15.15		51444	38.75 17.00	52727 258.75 22.00	52081 208.90 22.00	53196 134.75 3.67	53780 196.15 28.00
21035	17.10	2.00	51445	38.75 18.67	52728 258.75 23.67	52082 208.90 23.67	53197 134.75 5.33	53781 194.23 28.00
21036	19.05	2.00	51446	38.75 20.33	52729 258.75 25.33	52083 208.90 25.33	53198 134.75 7.00	53782 192.30 28.00
21037	21.00	2.00	51447	38.75 22.00	52730 260.75 3.67	52084 240.75 27.00	53199 134.75 8.67	53783 190.38 28.00
21038	22.95	2.00	51448	38.75 23.67	52731 260.75 5.33	52085 240.75 3.67	53200 134.75 10.33	53784 188.45 28.00
21039	24.90	2.00	51449	38.75 25.33	52732 260.75 7.00	52086 240.75 5.33	53201 134.75 12.00	53785 186.53 28.00
21040	26.85	2.00	51450	40.75 3.67	52733 260.75 8.67	52087 240.75 7.00	53202 134.75 13.67	53786 184.60 28.00
21041	28.80	2.00	51451	40.75 5.33	52734 260.75 10.33	52088 240.75 8.67	53203 134.75 15.33	53787 182.68 28.00
21042	3.45	1.00	51452	40.75 7.00	52735 260.75 12.00	52089 240.75 10.33	53204 134.75 17.00	

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HONEL YOU	Element Data			
7-02-1-00006, Rev. 0	7288 1 1 47 0 1 20909 20910 20896 20897 ELEM WAT TYP REL ESY SEC TSHA NODES	7289 1 1 47 0 1 20910 20911 20895 20896 7290 1 1 47 0 1 20911 20912 20895 20896 7291 1 47 0 1 20912 20913 20894 20895 7291 1 47 0 1 20912 20913 20894 20895 7293 1 1 47 0 1 20913 20914 20892 20894 7299 1 1 47 0 1 20916 20915 20916 20891 20895 7295 1 1 47 0 1 20916 20917 20896 20891 7295 1 1 47 0 1 20918 20920 20952 20954 7299 1 47 0 1 20922 20924 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20955 7300 1 1 47 0 1 20922 20924 20955 20959 7300 1 1 47 0 1 20925 20925 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959 20959	MAT TYP REL ESY SEC TSHA NODES  1 1 47 0 1 20930 20931 20956  1 1 47 0 1 20931 20932 20956  1 1 47 0 1 20931 20932 20956  1 1 47 0 1 20951 20952 20956 20956  1 1 47 0 1 20955 20956 20946  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20956 20996  1 1 47 0 1 20956 20959 20941  1 1 47 0 1 20956 20959 209941  1 1 47 0 1 20956 20959 209941  1 1 47 0 1 20956 20959 209941  1 1 47 0 1 20956 20957 20997  1 1 47 0 1 20956 20957 20997  1 1 47 0 1 20956 20957 20997  1 1 47 0 1 20956 20957 20997  1 1 47 0 1 20957 20977 20007  1 1 47 0 1 20977 20977 20078  1 1 47 0 1 20977 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20977 20978 20998  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999  1 1 47 0 1 20997 20998 20999	1 1 47 0 1 21002 21003 20989  MAT TYP REL ESY SEC TSHA NODES  1 1 47 0 1 21004 21005 20988  1 1 47 0 1 21004 21005 20988

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	0.0000 0.50000 0.50000 0.0000	00000	0.500000	PINB	FWT	TNOP	0.00000	0.500000	0.0000	0.00000	0.500000	0.0000	PINB	FWGT	TNOP	0.0000	0.500000	0.0000	0.0000	0.00000	0.500000	0.0000	PINB	FWGT	TNOP	0.0000	0.500000	0.00000	00000	0.00000	0.00000	0.00000	PINB	FWGT	TNOP	0.00000	0.500000	0.00000	00000	
	0.00000 1.00000 1.00000 0.00000	0.0000	1.00000	ICON	FKOP RDVF	SLTO DLTX	0.00000	1.00000	0.0000	0.00000	1.00000	0.0000.0	ICON	ROVE	SLTS DLTX	0.00000	1.00000	0.0000.0	0.00000	1.00000	0.00000	0.0000.0	ICON	RDVF	SLTO	0.00000	1.00000	0.00000	0.0000	1.00000	0.00000	0.0000.0	ICON	ROVE	SLTO	0.00000	1.00000	0.00000	0.0000	) ) ) )
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TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA		3451 53437 3465 53451	3315 53465	3354 53340	3368 53354 3303 6336	3396 53382	3410 53396	3424 53410	3458 534Z4	משקר מושלים	3316 53466	3355 53341	3369 53355	3383 53369	3397 53383	3411 53397	3425 53411	3439 53425				3453 53439	3467 53453	3317 53467	3356 53342	3370 53356	3384 53370	3398 53384	3412 53398	3426 53412	3440 53426	3454 53440 አቀርው ፍንልፍላ	3468 53454 3318 53468	5516 55666 5357 53343	201 USSES	3385 53371	3399 53385	3413 53399	3427 53413	3441 53427			1776 65771	1450 03468	240V 3340S	0.01.5° 0.04.65°	3358 53344	1372 53358	1386 53372	5400 53386	5414 53400	5428 55414 1447 53438	1455 S1440	1470 53456	1320 53470	359 53345	1373 53359	1387 53373	3401 53387	3415 53401	3429 53415	1443 53429				457 53443	471 53457	321 53471	323 5332	11.00
TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA		53451	53315	53354	53368	53396	53410	53424	55458	2010	53316	53355	53369	53383	53397	53411	53425	53439				53453	53467	53317	53356	53370	53384	53398	53412	53426	53440	53456	53458	53357	53371	53385	53399	53413	53427	53441			22762	00400	20400	2232	53358	53372	53386	53400	53414	53449	23455	53470	53320	53359	53373	53387	53401	53415	53429	53443				53457	53471	53321	51323	,
TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA		53451	53315	53354	53368	53396	53410	53424	55458	2010	53316	53355	53369	53383	53397	53411	53425	53439		)ES		53453	53467	53317	53356	53370	53384	53398	53412	53426	53440	53456	53458	53357	53371	53385	53399	53413	53427	53441	ţ	o di	22762	00400	20400	2232	53358	53372	53386	53400	53414	53449	23455	53470	53320	53359	53373	53387	53401	53415	53429	53443		ES		53457	53471	53321	51323	,
TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA		53451	53315	53354	53368	53396	53410	53424	55458	2010	53316	53355	53369	53383	53397	53411	53425	53439		NODES		53453	53467	53317	53356	53370	53384	53398	53412	53426	53440	53456	53458	53357	53371	53385	53399	53413	53427	53441		200	22762	00400	20400	2232	53358	53372	53386	53400	53414	53449	23455	53470	53320	53359	53373	53387	53401	53415	53429	53443		IODES		53457	53471	53321	53323	
TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA		53450 53451 53464 53465	53314 53315	53353 53354	53367 53368	53395 53396	53409 53410	53423 53424	53437 53458	70400 70400	53315 53316	53354 53355	53368 53369	53382 53383	53396 53397	53410 53411	53424 53425	53438 53439		NODES		53452 53453	53466 53467	53316 53317	53355 53356	53369 53370	53383 53384	53397 53398	53411 53412	53425 53426	53439 53440	53453 53454	53467 53468 53312 53318	53356 53357	12520 05555	53384 53385	53398 53399	53412 53413	53426 53427	53440 53441		NODES	SOFES FORES	10404 00400	33400 33403	ATSSC STEEL	53357 53358	53371 53372	53385 53386	53399 53400	53413 53414	53447 53447	52455 52455	53469 53470	53319 53320	53358 53359	53372 53373	53386 53387	53400 53401	53414 53415	53428 53429	53442 53443		NODES		53456 53457	53470 53471	53320 53321	53359 53323	22.2
TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA  TYP REL ESY SEC TSHA		53450 53451 53464 53465	53314 53315	53353 53354	53367 53368	53395 53396	53409 53410	53423 53424	53437 53458	70400 70400	53315 53316	53354 53355	53368 53369	53382 53383	53396 53397	53410 53411	53424 53425	53438 53439		NODES		53452 53453	53466 53467	53316 53317	53355 53356	53369 53370	53383 53384	53397 53398	53411 53412	53425 53426	53439 53440	53453 53454	53467 53468 53312 53318	53356 53357	12520 05555	53384 53385	53398 53399	53412 53413	53426 53427	53440 53441		NODES	SOFES FORES	10404 00400	33400 33403	ATSSC STEEL	53357 53358	53371 53372	53385 53386	53399 53400	53413 53414	53447 53447	52455 52455	53469 53470	53319 53320	53358 53359	53372 53373	53386 53387	53400 53401	53414 53415	53428 53429	53442 53443		NODES		53456 53457	53470 53471	53320 53321	53359 53323	53359 53523
77 REC SS C C C C C C C C C C C C C C C C C		53450 53451 53464 53465	53314 53315	53353 53354	53367 53368	53395 53396	53409 53410	53423 53424	53437 53458	70400 70400	53315 53316	53354 53355	53368 53369	53382 53383	53396 53397	53410 53411	53424 53425	53438 53439		NODES		53452 53453	53466 53467	53316 53317	53355 53356	53369 53370	53383 53384	53397 53398	53411 53412	53425 53426	53439 53440	53453 53454	53467 53468 53312 53318	53356 53357	12520 05555	53384 53385	53398 53399	53412 53413	53426 53427	53440 53441		NODES	SOFES FORES	10404 00400	33400 33403	ATSSC STEEL	53357 53358	53371 53372	53385 53386	53399 53400	53413 53414	53447 53447	52455 52455	53469 53470	53319 53320	53358 53359	53372 53373	53386 53387	53400 53401	53414 53415	53428 53429	53442 53443		NODES		53456 53457	53470 53471	53320 53321	53359 53323	22.2
77. REC SS C C C C C C C C C C C C C C C C C		53450 53451 53464 53465	53314 53315	53353 53354	53367 53368	53395 53396	53409 53410	53423 53424	53437 53458	70400 70400	53315 53316	53354 53355	53368 53369	53382 53383	53396 53397	53410 53411	53424 53425	53438 53439				53452 53453	53466 53467	53316 53317	53355 53356	53369 53370	53383 53384	53397 53398	53411 53412	53425 53426	53439 53440	53453 53454	53467 53468 53312 53318	53356 53357	12520 05555	53384 53385	53398 53399	53412 53413	53426 53427	53440 53441			SOFES FORES	10404 00400	33400 33403	ATSSC STEEL	53357 53358	53371 53372	53385 53386	53399 53400	53413 53414	53447 53447	52455 52455	53469 53470	53319 53320	53358 53359	53372 53373	53386 53387	53400 53401	53414 53415	53428 53429	53442 53443				53456 53457	53470 53471	53320 53321	53359 53323	22.2
7.		53450 53451 53464 53465	53314 53315	53353 53354	53367 53368	53395 53396	53409 53410	53423 53424	53437 53458	70400 70400	53315 53316	53354 53355	53368 53369	53382 53383	53396 53397	53410 53411	53424 53425	53438 53439				53452 53453	53466 53467	53316 53317	53355 53356	53369 53370	53383 53384	53397 53398	53411 53412	53425 53426	53439 53440	53453 53454	53467 53468 53312 53318	53356 53357	12520 05555	53384 53385	53398 53399	53412 53413	53426 53427	53440 53441			SOFES FORES	10404 00400	20400 20403	ATSSC STEEL	53357 53358	53371 53372	53385 53386	53399 53400	53413 53414	53447 53447	52455 52455	53469 53470	53319 53320	53358 53359	53372 53373	53386 53387	53400 53401	53414 53415	53428 53429	53442 53443				53456 53457	53470 53471	53320 53321	53359 53333	7
77		53450 53451 53464 53465	53464 53314 53315	53339 53353 53354	53353 53367 53368	53381 53395 53396	53395 53409 53410	53409 53423 53424	53423 53437 53438	40400 10400 10400	53465 53315 53316	53340 53354 53355	53354 53368 53369	53368 53382 53383	53382 53396 53397	53396 53410 53411	53410 53424 53425	53424 53438 53439		EC TSHA		53452 53453	53466 53467	53316 53317	53355 53356	53369 53370	53383 53384	53397 53398	53411 53412	53425 53426	53439 53440	53453 53454	53453 53467 53468	53342 53345 53355	53355 52350 53351	53370 53384 53385	53384 53398 53399	53398 53412 53413	53412 53426 53427	53426 53440 53441		Anc.	SOFES FORES	10404 00400	20400 20403	ATSSC STEEL	53357 53358	53371 53372	53385 53386	53399 53400	53413 53414	53415 53427 53426 53437 53441 53443	53441 53455 53455	53455 53469 53470	53469 53319 53320	53344 53358 53359	53358 53372 53373	53372 53386 53387	53386 53400 53401	53400 53414 53415	53414 53428 53429	53428 53442 53443		TSHA		53442 53456 53457	53456 53470 53471	53470 53320 53321	53345 53359 53323	12440 PC140 C401C
		1 53436 53450 53451 1 53450 53464 53465	1 53464 53314 53315	1 53339 53353 53354	1 53353 53367 53368	3 53381 53395 53396	1 53395 53409 53410	1 53409 53423 53424	1 53423 53437 53438	2020 7020 0020 T	1 53465 53315 53316	1 53340 53354 53355	1 53354 53368 53369	1 53368 53382 53383	1 53382 53396 53397	1 53396 53410 53411	1 53410 53424 53425	1 53424 53438 53439		SEC TSHA		1 53438 53452 53453	1 53452 53466 53467	1 53466 53316 53317	1 53341 53355 53356	1 53355 53369 53370	1 53369 53383 53384	1 53383 53397 53398	1 53397 53411 53412	1 53411 53425 53426	1 53425 53439 53440	1 53439 53453 53456	1 53453 53467 53468	1 53342 53356 53359	1 53356 53370 53371	1 53370 53384 53385	1 53384 53398 53399	1 53398 53412 53413	1 53412 53426 53427	1 53426 53440 53441		T SEC TORY	22762 72762 07762 6	1 35440 35400 B 25400 F	1 00404 00406 00409	ETSCC 8789C T	1 53343 53357 53358	1 53357 53371 53372	1 53371 53385 53386	1 53385 53399 53400	1 53399 53413 53414	1 05415 05427 05428 1 53407 53441 53447	1 53441 53455 53455	1 53455 53469 53470	1 53469 53319 53320	1 53344 53358 53359	1 53358 53372 53373	1 53372 53386 53387	1 53386 53400 53401	1 53400 53414 53415	1 53414 53428 53429	1 53428 53442 53443		SEC TSHA		1 53442 53456 53457	1 53456 53470 53471	1 53470 53320 53321	1 53345 53359 53323	1 543.45 54454 54454
		0 1 53436 53450 53451 0 1 53450 53464 53465	0 1 53464 53314 53315	0 1 53339 53353 53354	0 1 53353 53367 53368	0 3 53381 53395 53396	0 1 53395 53409 53410	0 1 53409 53423 53424	0 1 53423 53437 53438	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 53465 53315 53316	0 1 53340 53354 53355	0 1 53354 53368 53369	0 1 53368 53382 53383	0 1 53382 53396 53397	0 1 53396 53410 53411	0 1 53410 53424 53425	0 1 53424 53438 53439		SEC TSHA		0 1 53438 53452 53453	0 1 53452 53466 53467	0 1 53466 53316 53317	0 1 53341 53355 53356	0 1 53355 53369 53370	0 1 53369 53383 53384	0 1 53383 53397 53398	0 1 53397 53411 53412	0 1 53411 53425 53426	0 1 53425 53439 53440	0 1 53459 53459 53456	0 1 53453 53467 53468 0 1 53467 53319 53318	0 1 53342 43346 53558	0 1 53356 53370 53371	0 1 53370 53384 53385	0 1 53384 53398 53399	0 1 53398 53412 53413	0 1 53412 53426 53427	0 1 53426 53440 53441		For Specifical	SOFTO FORCO CARCO C C	0.440 00404 00404 00400 00400	0. 1 0.0404 0.0406 0.0404	STEED STEED SONE	0 1 53343 53357 53358	0 1 53357 53371 53372	0 1 53371 53385 53386	U I 53385 53399 53400	0 1 53399 53413 53414	0 1 03445 03467 03468 0 1 63407 63441 63447	0 1 GALA1 SAASS COMME	0 1 53455 53469 53470	0 1 53469 53319 53320	0 1 53344 53358 53359	0 1 53358 53372 53373	0 1 53372 53386 53387	0 1 53386 53400 53401	0 1 53400 53414 53415	0 1 53414 53428 53429	0 1 53428 53442 53443		ESY SEC TSHA		0 1 53442 53456 53457	0 1 53456 53470 53471	0 1 53470 53320 53321	0 1 53345 53359 53323	U 1 54454 54454 54454
		0 1 53436 53450 53451 0 1 53450 53464 53465	0 1 53464 53314 53315	0 1 53339 53353 53354	0 1 53353 53367 53368	0 3 53381 53395 53396	0 1 53395 53409 53410	0 1 53409 53423 53424	0 1 53423 53437 53438	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 53465 53315 53316	0 1 53340 53354 53355	0 1 53354 53368 53369	0 1 53368 53382 53383	0 1 53382 53396 53397	0 1 53396 53410 53411	0 1 53410 53424 53425	0 1 53424 53438 53439		L ESY SEC TSHA		0 1 53438 53452 53453	0 1 53452 53466 53467	0 1 53466 53316 53317	0 1 53341 53355 53356	0 1 53355 53369 53370	0 1 53369 53383 53384	0 1 53383 53397 53398	0 1 53397 53411 53412	0 1 53411 53425 53426	0 1 53425 53439 53440	0 1 53459 53459 53456	0 1 53453 53467 53468 0 1 53467 53319 53318	0 1 53342 43346 53558	0 1 53356 53370 53371	0 1 53370 53384 53385	0 1 53384 53398 53399	0 1 53398 53412 53413	0 1 53412 53426 53427	0 1 53426 53440 53441		For Specifical	SOFTO FORCO CARCO C C	0.440 00404 00404 00400 00400	0. 1 0.0404 0.0406 0.0404	STEED STEED SONE	0 1 53343 53357 53358	0 1 53357 53371 53372	0 1 53371 53385 53386	U I 53385 53399 53400	0 1 53399 53413 53414	0 1 03445 03467 03468 0 1 63407 63441 63447	0 1 GALA1 SAASS COMME	0 1 53455 53469 53470	0 1 53469 53319 53320	0 1 53344 53358 53359	0 1 53358 53372 53373	0 1 53372 53386 53387	0 1 53386 53400 53401	0 1 53400 53414 53415	0 1 53414 53428 53429	0 1 53428 53442 53443		ESY SEC TSHA		0 1 53442 53456 53457	0 1 53456 53470 53471	0 1 53470 53320 53321	0 1 53345 53359 53323	U 1 54454 54454 54454
12800 12800 12802 12802 12802 12802 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 12803 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	1.00000	0.0000	0.00000	0.0000	1.00000	0.0000	0.00000	0.0000	1.00000	1.00000	0.0000		0.0000	1.00000	0.00000	0.0000	0000	1 00000	1.00000	0.0000	0.0000	0.00000	1.00000	1.00000	0.00000		0.00000	1.00000	0.0000	0.0000	2004	TCON ENCOR	RDVF	SLTO	0.00000	1.00000	1.00000	0.00000		0.00000	1.00000	0.0000.0	0.00000	0.0000	1.00000	1.00000	0.00000	6	1.00000	1.00000	0.0000		0.00000	1.00000	0.0000	0.0000
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	0.00000	FTOL	SBCT	_	0.0000	0.0000	0.100000		0.00000	0.100000	0.0000-0		10681		0.0000	0.06000	0.00000	0.00000	0 8	0.10000	00000-0	0.0000	NODES	10684	0.100000	0.00000	0.00000	0.100000	0.0000	0.00000		0.00000	0.00000	10687	0.00000	0.0000	0,0	0.00000
	1.00000	FKN	FHTG	NFLS 1.00000	1.00000	0.00000	1.00000 0.100000E+21	1.00000	0.00000	1.00000	1.00000	1.00000	1 LINE 10682 1	0.100000B+21		0.00000 1 LINE 10683 1	1.00000 0.100000E+21	1.00000	0.00000 1 LINE 10684	1.00000	1.00000	0.00000	SEC TSHA	1 LINE 10685 1	1.00000 0.100000E+21	1.00000	0.00000	1.00000	1.00000 1.00000	1.00000	1 LINE 10687 1 1.00000	0.100000E+21 1.00000	1.00000	1 LINE 10688 1 1.00000	0.100000E+21	1,00000	1 LINE 10689 1	1.00000 1.00000
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1-CEC -2001	0.0000	REAL	COHE	TOLS 0.00000	0.0000	0.00000	0.0000	0.0000	0.0000	0.0000	0000000	0.0000	13394	000000	0.00000	13395	0.00000	0.00000	0.00000	0.0000	00000	00000-0	BLEM M	13397	0.0000	0.0000	0,00000	000000	0.0000	0.0000	0.00000	0.0000	0.0000	13400	00000	0.00000	13401	2000

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		0.00000	0.0000	PINB FKT FWCT	TNOP	0.00000	0.00000	0.0000	0.50000	0.0000	0.00000	0.500000	0.0000	0.00000	0.00000	0.00000	0.50000	0.00000	0.00000	0.500000	0.00000	0.00000	0.500000	0.00000	0.00000	0.500000	0.00000	0.00000	0.50000	0.00000	0.0000	0.50000	0.0000
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5, Rev. 0	P TYP REL ESY S	2 262 117 0 0.00000 0.00000 0.00000	0.00000	REA2 PMIN TCC	PHEG PPCR	000000000000000000000000000000000000000	0.50000	2 263 117 U 0.00000 0.00000	0.00000	0,00000	0.0000	0.00000	2 263 117 0	0.00000	0.500000	2 263 117 0 0.00000	0.00000	0.00000	0.00000	0.00000	0.00000 263 117 0	0.00000	0.00000	0.00000	0-00000	0.00000	0.00000	0.00000	0,00000	0.00000	0.00000	0.500000	0.00000
-crc 26-00006,	ELEM MAT	13437 2 0.00000 0.00000 0.00000	0.00000	REA1 PMAX COHE	FCC TOLS	0.0000	0.00000	0.00000	0.00000		0.00000	0.00000	13441 2	0.00000	0.00000	13442 2 0.00000	0.00000	0.00000	0.00000	0.00000	13444 2	0.00000	0.00000	0.00000	0.00000	0.00000							N

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	0.00000	53111 53111 0.00000 0.00000	53548 53548 0.00000 0.00000	53549 53548 0.00000 0.00000	53550 53550 0.00000 0.00000	53551 53551 0.00000 0.00000	53552 53552 0.00000 0.00000	53553 53553 0.00000 0.00000	53554 53554 0.00000 0.00000	53555 53555	53556 53556 0.00000	0.00000 NODES	53557 53557 0.00000 0.00000	53558 53558 0.00000 0.00000	53559 53559 0,00000 0,00000	53560 53560 0.00000 0.00000	\$3561 53561 0.00000 0.00000		
	0.00000	1 53321 0.00000 0.00000	1 52323 0.00000 0.00000	1 52324 0.00000 0.00000	1 52325 0.00000 0.00000	1 52326 0.00000 0.00000	1 0.00000 0.00000	1 52328 0.00000 0.00000	1 52329 0.00000 0.00000	330	331	0.00000 SEC TSHA	1 52332 0.00000 0.00000	1 52333 0.00000 0.00000	1 52334 0.00000 0.00000	1 52335 0.00000 0.00000	1 52336 0.00000 0.00000		
Rev. 0	0.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	0.00000	2 2 0	1.00000 TYP REL ESY SE	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000		
T-CLC-\$-00006,	342000.	0.00000 14012 2 342000. 0.00000	14013 2 342000. 0.00000	14014 2 342000. 0.00000	14015 2 342000. 0.00000	0.00000 14016 2 342000. 0.00000	14017 2 342000. 0.00000	14018 2 342000. 0.00000	0.00000 14019 2 342000. 0.00000	14020 14020 342000.	0.00000 14021 342000.	0.00000 0.00000 ELEM MAT	14022 2 342000. 0.00000	14023 2 14023 2 342000. 0.00000	0.00000 14024 2 342000.	0.00000 14025 2 342000.	0.00000 14026 2 342000. 0.00000	0.00000	
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Rev. 0	0.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	TYP REL ESY S	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000	2 2 0 0.00000 1.00000
T-CLC-4-00006, 1	342000.	13994 2 13994 2 342000. 0.00000	13995 342000. 0.00000	13996 2 342000. 0.00000	13997 2 342000. 0.00000	13998 2 342000. 0.00000	13999 2 342000. 0.00000	1400 2 342000. 0.00000	14001 2 342000. 0.00000	e	14002 2 342000. 0.00000	14003 342000. 0.00000	14004 14004 342000. 0.00000	14005 342000. 0.00000	14006 342000. 0.00000	14007 14007 342000. 0.00000	14008 342000. 0.00000.	342000. 342000. 0.00000	0.00000 14010 2 342000. 0.00000 0.00000

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	20692 20692 20693 20694 20695 20714 20716 20715 20717 20719 20719	20722 20722 20722 20722 20728 20726 20726 20730 20730 20730 20730 20730 20730 20730 20730	20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20774 20
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r-crc-x-00006,	7156 7157 7159 7159 7161 7162 7163 7164 7164 7166		1185 1186 1186 1187 1188 1199 1199 1199 1199 1199 1199
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T-CIC- 1 100066, Nev. 0	1 1 47 0 1 10716 10701 1 1 47 0 1 10717 10702 1	1 1 47 0 1 10719 10705 1	1 1 47 0 1 10721 10706 2	7097 1 1 47 0 1 178 20604 20624 7098 1 1 47 0 1 20604 20652 70625 7099 1 1 47 0 1 20604 2065 20625	1 1 47 0 1 20606 20607 2	1 1 47 0 1 20609 20609 2 1 1 47 0 1 20608 20609 2 1 1 47 0 1 20609 20610 2	1 1 47 0 1 20610 20611 2	1 1 47 0 1 20612 20603 2 1 1 47 0 1 20612 20603 2 1 1 1 47 0 1 20612 20603 2	1 1 47 0 1 20624 20625 2	ELEM MAT TYP REL ESY SEC TSHA NODES	1 1 47 0 1 20625 20626 2 1 1 47 0 1 20626 20627 2	1 1 47 0 1 20627 20628 2 1 1 47 0 1 20628 20629 2	1 1 47 0 1 20629 20630 2	1 1 47 0 1 20631 20632 2	1 1 47 0 1 20633 20635 2	1 47 0 1 20636 20637 2 1 1 47 0 1 20636 20637 2 1 1 47 0 1 20636 20637 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 47 0 1 20639 20639 2	1 1 47 0 1 20640 2 1 1 47 0 1 20640 20641 2	7124 1 1 47 0 1 20641 20642 20674 7125 1 1 47 0 1 20642 20643 20675	1 1 47 0 1 20643 20644 2 1 1 47 0 1 20644 20645 2	1 1 47 0 1 20645 20646 2	MAT TYP REL ESY SEC TSHA NODES	7129 1 47 0 1 20646 20647 20679 7130 1 47 0 1 20647 20648 20680 7130 1 47 0 1 20647 20648 20680	1 1 47 0 1 20666 20667	1 1 47 0 1 20568 20569	1 1 47 0 1 20659 20670 1 1 47 0 1 20670 20671	1 1 47 0 1 20671 20672 1 1 47 0 1 20672 20673	1 1 47 0 1 20673 20674 1 1 47 0 1 20674 20675	1 1 47 0 1 20675 20676	1 1 47 0 1 20673 20678	1 1 47 0 1 20670 20670	1 1 47 0 1 20681 20683 1 1 47 0 1 20683 20683	MAT TYP REL BSY SEC TSHA NODES		7151 1 47 0 1 20685 20686 20719 7151 1 1 47 0 1 20686 20686 20719	1 1 47 0 1 20587 20588 1 1 47 0 1 20688 20589	1 1 47 0 1 20689 20690 1 1 47 0 1 20690 20691	
T-CIC. pc-0006, Rev. 0	LIST ALL SELECTED ELEMENTS. (LIST NODES)	ELEM MAT TYP REL ESY SEC TSHA NODES	1 1 1 0 1 1 2 4 1 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1	128 1 1 0 1 211 178 201 213 129 1 1 1 0 1 213 201 191 212 130 1 1 0 1 214 215 219	1 1 0 1 219 217 216 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 0 1 366 364 363 10604 1 1 47 0 1 365 363 10604	1 47 0 1 10619 10604 10605	1 1 47 0 1 10621 10607 10607 1 1 47 0 1 10607 10607 1 1 47 0 1 10622 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 10607 106	1 1 47 0 1 10623 10609 10609 1 1 1 47 0 1 10663 10609 1 1 1 47 0 1 10654 10609 10609 1	1 1 47 0 1 10625 10610 10611 1 1 47 0 1 10651 10611 1 1 47 0 1 10625 10611 10611	1 1 47 0 1 10627 10612 10613 1 1 47 0 1 10628 10613 10614	1 1 47 0 1 10629 10614 10615	BLEM MAT TYP REL ESY SEC TSHA NODES	1 1 47 0 1 10630 10615 10616 1 1 47 0 1 10631 10617	1 1 47 0 1 10632 10613 10603	1 1 47 0 1 10649 10634 10635	1 1 47 0 1 10651 10655 10656	1 1 47 0 1 10653 10634 10639	1 1 47 0 1 10654 10639 10640 1 1 47 0 1 10655 10640 10641	1 1 47 0 1 10656 10641 10642 1 1 47 0 1 10657 10642 10643	1 1 47 0 1 10658 10643 10644 1 1 47 0 1 10659 10644 10645	1 1 47 0 1 10660 10645 10646 1 1 47 0 1 10661 10646 10647	3851 1 1 47 0 1 10662 10647 10633 10648 3852 1 1 47 0 1 228 216 10664 10679 3852 1 47 0 1 228 216 10664 10679	NAME HAND DOOR, DOOR INCOME.	MUDES	1 1 47 0 1 10580 10565 10565 1 1 47 0 1 10581 10565 10567	1 1 47 0 1 10682 10667 10668 1 1 47 0 1 10683 10668 10669	1 1 47 0 1 10684 10669 10670 1 1 47 0 1 10685 10670 10671	1 1 47 0 1 10686 10671 10672 10673 10673	1 1 47 0 1 10688 10673 10674 1 1 47 0 1 10689 10674 10675	1 47 0 1 10690 10675 10676 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 47 0 1 10692 10677 10663 1 1 47 0 1 5 3 10694	1 1 47 0 1 10709 10694 10695 1 1 47 0 1 10710 10695 10696	1 1 47 0 1 10711 10696 10697 1 1 10712 10698		ELEM MAT TYP REL BSY SEC TSHA NODES	3874 1 1 47 0 1 10715 10700 10701 10716	

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T-CLC-2-00006, Rev. 0
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TIME, 1
NSUBST, 4, 10, 2
/INPUT,'D1','txt','D:\Ansys Files\Run Files\Model 300\Diff Settlement',, 0
/STATUS, SOLU
SOLVE
TIME, 24
NSUBST, 4, 10, 2
/INPUT,'D24','txt','D:\Ansys Files\Run Files\Model 300\Diff Settlement',, 0
/STATUS, SOLU
SOLVE
1 *
TIME, 100
NSUBST, 10, 100, 5
/INPUT,'D100','txt','D:\Ansys Files\Run Files\Model 300\Diff Settlement',, 0
/STATUS, SOLU
SOLVE
!TIME, 1000
!NSUBST, 4, 100, 2
!/INPUT,'D1000','txt','D:\Ansys Files\Run Files\Model 300\Diff Settlement',, 0
!/STATUS,SOLU
! SOLVE
!TIME,5000
!NSUBST, 10, 100, 2
!/INPUT,'D5000','txt','D:\Ansys Files\Run Files\Model 300\Diff Settlement',, 0
!/STATUS, SOLU
! SOLVE
! *
!TIME, 10000
!/INPUT,'d10000','txt','D:\Ansys Files\Run Files\Model 300\Diff Settlement',, 0
!/STATUS,SOLU
! SOLVE
!FINISH
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MODEL 300

Time step file for static displacements

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T-CLC-F-00006, Rev. 0
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D,30001,,-0.547,,,,UY
 30002,,-0.547,,,,UY
D,51012,,-0.547,,,,UY
D,51013,,-0.547,,,,UY
D,51014,,-0.547,,,UY
D,51015,,-0.547,,,UY
D,51016,,-0.547,,,,UY
D,51017,,-0.547,,,,UY
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D,51019,,-0.547,,,UY
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D,51024,,-0.546,,,,UY
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D,50633,,-0.546,,,,UY
D,51011,,-0.546,,,UY
D,50635,,-0.546,,,,UY
D,50636,,-0.545,,,,UY
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D,50753,,-0.533,,,,UY

Model 300

Typical static displacement file

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571
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R, 47, 1.95*k, , ,

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# Calculation Continuation Sheet

Calculation No.	Sheet No.	Rev.								
T-CLC-Z-00006	572	0								
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	Preliminary Model Studie	<del>s)</del> /								
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## Calculation Continuation Sheet

Calculation No.	Sheet No.	Rev.
T-CLC-Z-00006	573	0

This Appendix is intended to provide a summary of preliminary calculations that were performed to justify some of the assumptions and methods used for the final analysis.

### G1. Bounding Case for Static Settlement Displacements.

A simple 2-D elastic model was used to determine which of the loading conditions resulted in the highest stress/strain state in the vault.

### G1.1 Displacement Calculation.

The 2-D axisymmetric model was run with three loading conditions. A preliminary soil closure cap design was used to calculate the vertical pressure loads.

Load P1 – Loading from Vault 4 only.

Load P2 – Loads from all 15 proposed vaults.

Load P3 – Loads from all but 13, 14, 15. (The soil heave effect of these vaults tends to counteract the settlement under vault 4.)

The displacements from the axisymmetric model were interpolated for application to the plane strain elastic model.

#### G1.2 Plane Strain Model Results.

The model is shown on figures G1 through G3. The horizontal stress is shown on the contour plots in figures G4 through 8. The maximum tensile stress of 13.1 ksf occurs for case P3R. Case P3R is the right hand displacement pattern of loading condition P3. This bounding case is used for the remainder of the analysis in this calculation.

#### G2. Preliminary 2-D and 3-D Model Comparison.

To validate the use of a 2-D plane strain model, a preliminary analysis was performed with a non-linear 3-D model. Loads and displacements applied to the model were based on preliminary information. The model did not include the construction joints. For comparison, the 2-D model (Model 70) was modified to bond the construction joints and was run with the same loads and properties as the 3-D model.

The results are compared in figures G9 through G14. The results show slightly higher values for the 2-D model.

# Calculation Continuation Sheet

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T-CLC-Z-00006	574	0

## Table G1. 2-D and 3-D Model Comparison

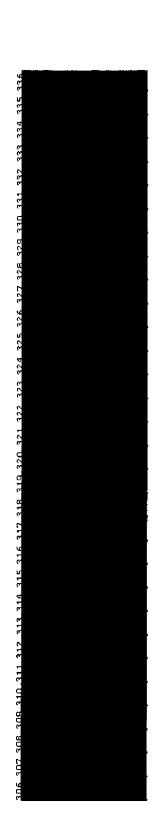
Description	3-D Max. Value	2-D Max. Value	% Variation
Horizontal Stress	39.5 ksf	41.4 ksf	+4.8%
Horizontal Strain	7.69E-5	7.8E-5	+1.4%
Contact Pressure	18.4 ksf	20.9 ksf	+1.1%

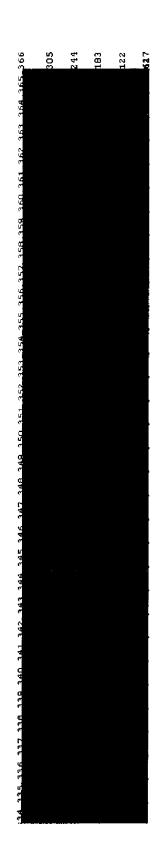
The 2-D model and 3-D model give very similar results. In addition, the contours compare closely for both models.

## G3. Conclusions.

- 1. The loading condition P3R chosen for the analysis represents a bounding case.
- 2. The use of a 2-D non-linear plane strain model is representative for the structural behavior of the vault.

Model 2 - 2D Plane Strain Node Numbers

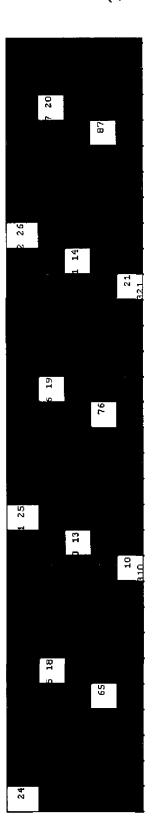




Note: Bottom row has coincident nodes 1-61 and 367-427

Figure Gil

Model 2 - 2D Plane Strain Element Numbers



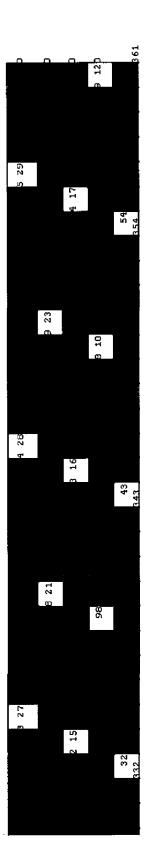
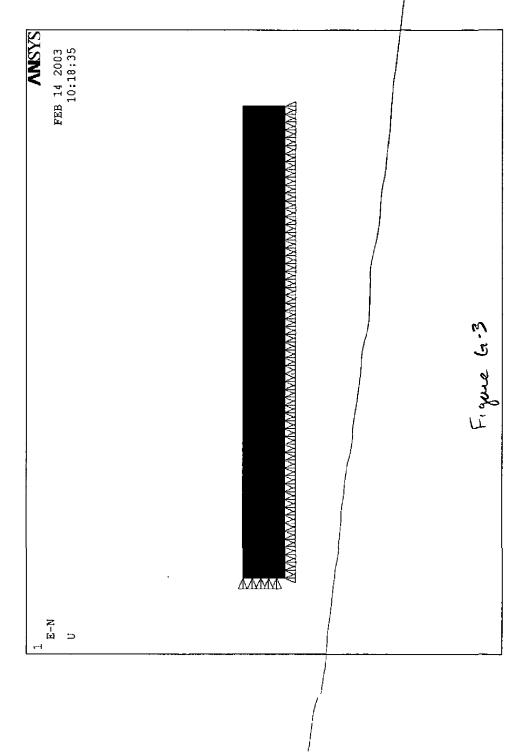


Figure 42

Model 2 - 2D Plane Strain
Boundary Conditions
X dir. - fixed left side
Y dir. - imposed displacements



Model 2 - 2D Plane Strain Case P1 - Vault 4 Only Horizontal Stress σ_x

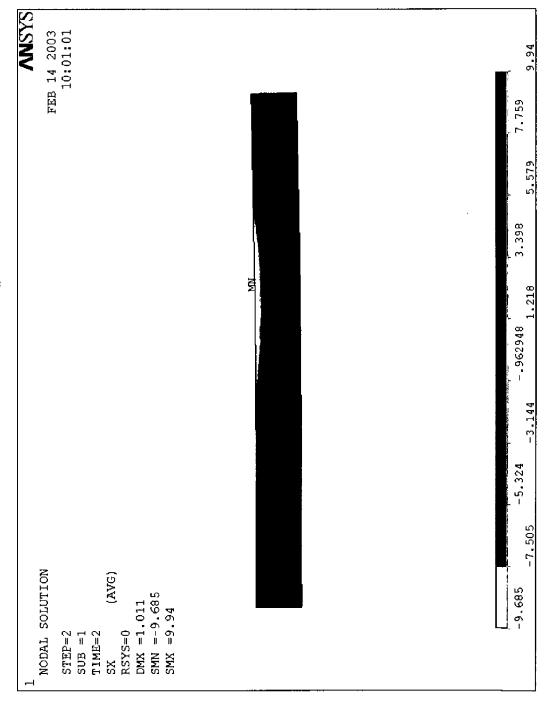


Figure 614

Model 2 - 2D Plane Strain Case P2R - All Vaults Horizontal Stress σ_x

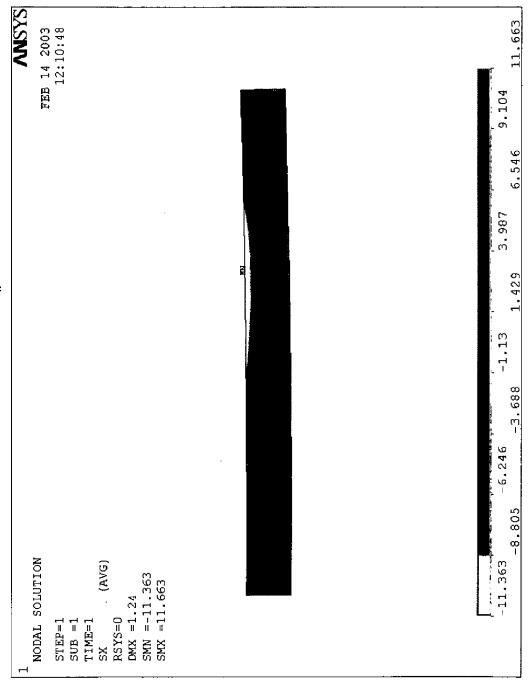


Figure 45

Model 2 - 2D Plane Strain Case P2L - All Vaults Horizontal Stress σ_x

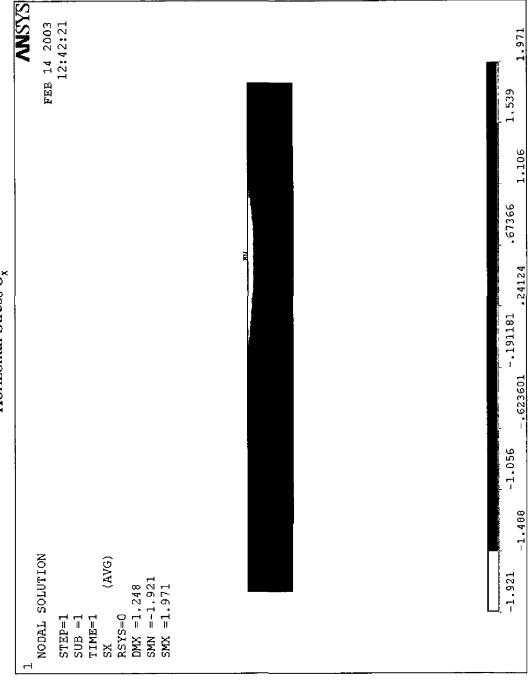


Figure 46

Model 2 - 2D Planc Strain Case P3R - All Vaults exc. 13,14,15 Horizontal Stress  $\sigma_x$ 

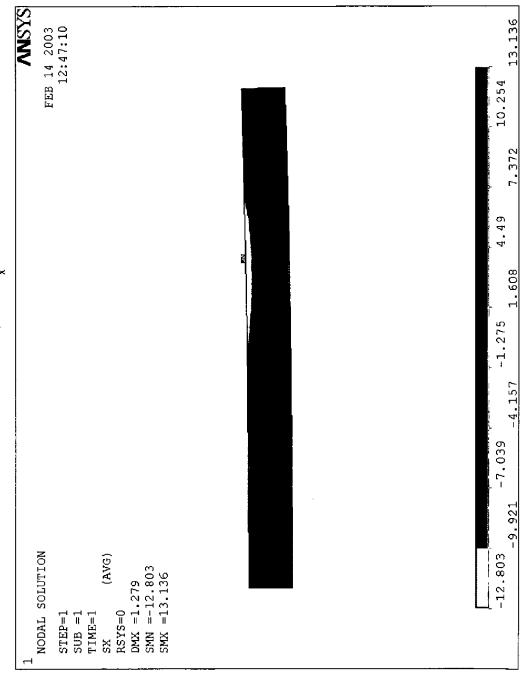
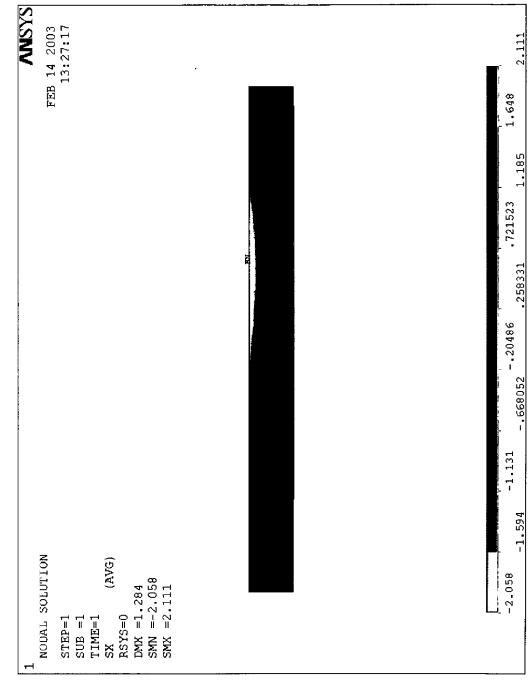


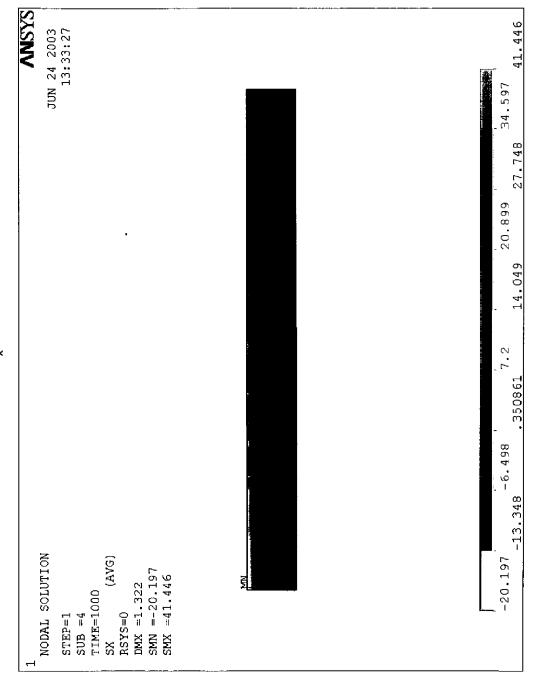
Figure 67

Model 2 - 2D Plane Strain Case P3L - All Vaults exc. 13,14,15 Horizontal Stress  $\sigma_x$ 



Flame (28

2-D Monolith Model  $\sigma_x$  Stress



Egure 69

2-D Monolith Model  $\epsilon_{x}$  Strain

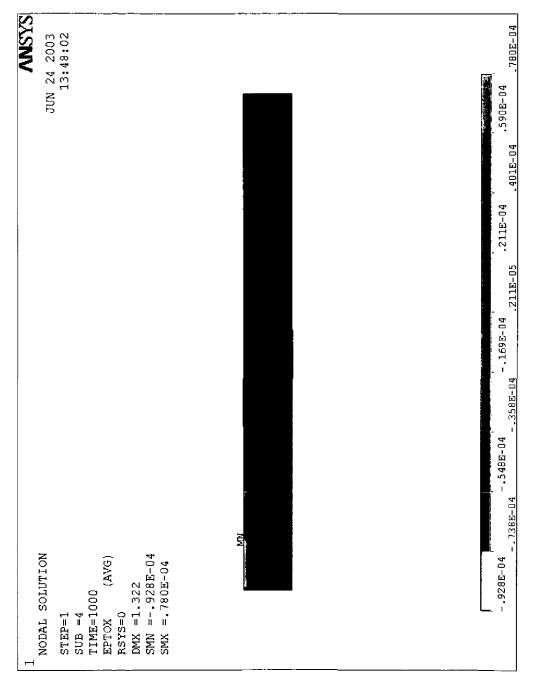
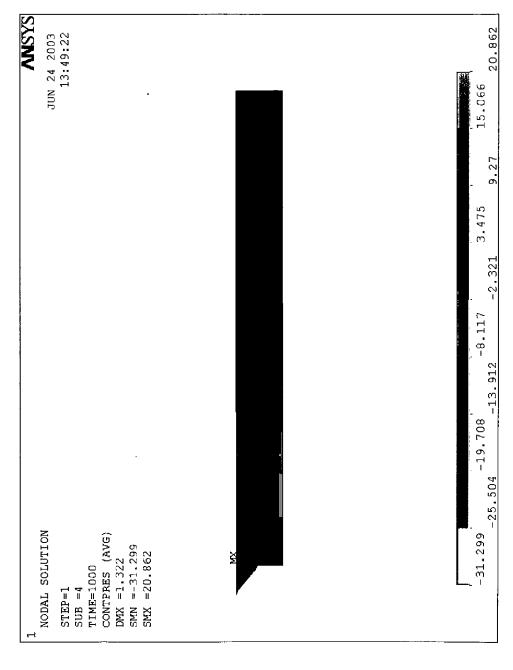


Figure 6-10

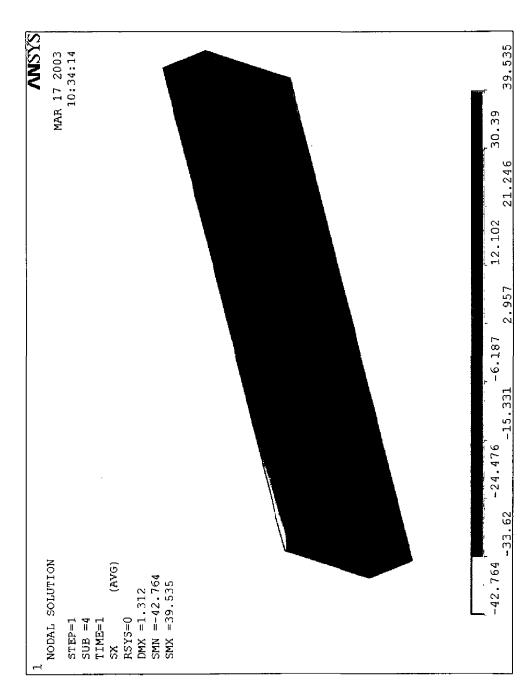
2-D Monolith Model Contact Pressure



Note: Negative pressure in base slab is due to contact elements being fixed.

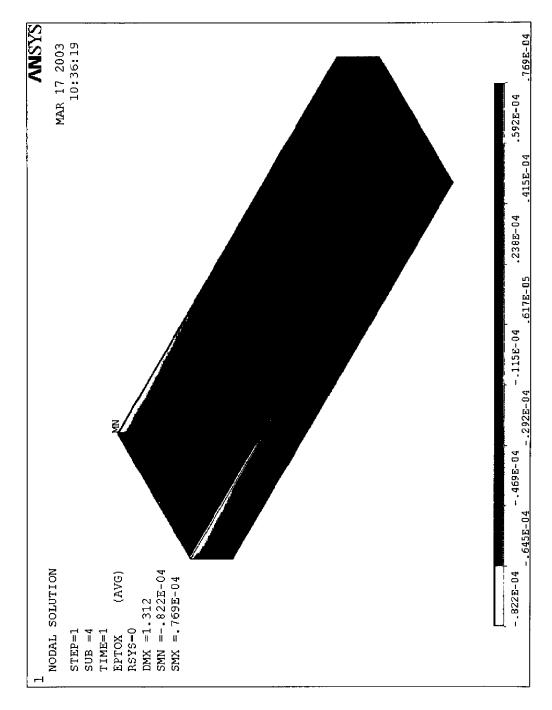
Egus 6-11

Model 3 – Concrete Structure Case 3 – Static Deformation after 1000 years  $\sigma_x$  – Horizontal Stress

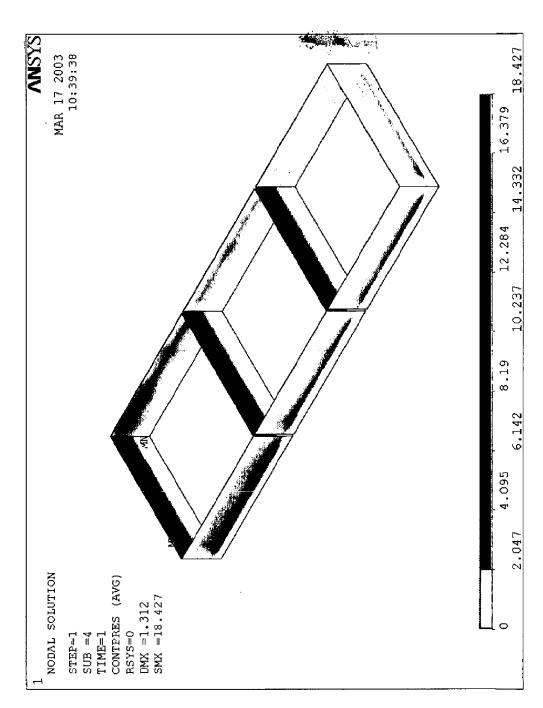


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Model 3 – Concrete Structure Case 3 – Static Deformation after 1000 years  $\epsilon_{\rm x}$  – Horizontal Strain



Model 3 – Concrete Structure Case 3 – Static Deformation after 1000 years Contact Pressure



4.0

Calculation Continuation Sheet						
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# Appendix H - Independent Verification of Statistical Approach

#### **Contents**

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H.2 Conclusion

H.3 Discussion

H.3.1 Technical Approach

H.3.2 Seismic Settlement

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H.3.2.2 Seismic Settlement Model #2

H.3.2.3 Comparison of Seismic Settlement Models

H.3.3 Median Settlement Estimate

H.3.3.1 Crack Area Relationships

H.3.3.2 Median Crack Area

H.3.4 Variability of Mean Settlement Estimate

H.3.4.1 Variability of Random Variables

H.3.4.2 Bottom Crack Areas

H.3.4.3 Top Crack Areas

Initialize Mathematica packages used in this appendix.

```
<< Graphics`Graphics`
<< Statistics`DataManipulation`
<< Statistics`NormalDistribution`
<< Statistics`ContinuousDistributions`
<< Statistics`DescriptiveStatistics`</pre>
```

Define the function Stats which calculates the mean and coefficient of variation, cov, of raw data

Note that Plus@@x sums all of the elements in the array x.

## ■ H.1 Purpose

The mean settlement, along with the settlement variability, are <u>estimated</u> in this appendix using simplified methods to validate the statistical results of this calculation. These results are based on the Finite Element results contained in Section 8.2 of this calculation. This appendix is independently prepared by one of the calculation verifiers.

## **■ H.2 Conclusion**

<u>Mertz</u> 7/9/3

This appendix independently calculates the crack area using the FEM results developed in Section 8.2. Despite using different seismic hazard models, different probability distributions and different fits to the FEM results, the crack areas calculated in this appendix have similar magnitudes and trends compared to the values developed in the body of this calculation. Note that the differences in results are much less than the inherent variability of the data. It is the verifier's judgement that this match is sufficient verification of the probabilistic results in the body of the calculation.

#### ■ H.3 Discussion

#### ■ H.3.1 Technical Approach

#### Background and Assumptions

The purpose of this calculation is to forecast cracking of Saltstone Vault #4 over the 1000 year period of the Performance Assessment. Additionally, the cracking is forecasted over a 10,000 year study period. Cracking is an input parameter to environmental studies, by others, to predict contaminate transport.

This calculation focuses on mechanical mechanisms which initiate and propagate cracks through the concrete vault and grout monolith. Non-mechanical mechanisms, such as weathering or chemical degradation are addressed elsewhere.

Cracks were initiated by hydrostatic operating loads in the walls of some cells of Vault #4. A key assumption in this analysis is that these cracks will be repaired prior to closure. Thus, these cracks are not considered in this calculation.

Since Vault #4 will be buried as part of the closure process then, external loads such as wind and tornado missiles will not impact the vault and need not be considered.

Differential settlement of the underlying soil has the largest potential to initiate cracking in Vault #4. Differential settlement due to 1) primary consolidation; 2) secondary consolidation; and 3) post-seismic differential settlement; are considered in this calculation. Post-seismic differential settlement consist of dynamic settlement as identified in Appendix D.

Cracking is quantified in this calculation by a parameter, CA, which represents the summation of projected crack areas on one 300' long vault wall. Cracking is determined by numerous finite element analyses, described in Section 8.2 of this calculation, for various combinations of random variables.

#### Random Variables

The following sources of variability are considered in this analysis:

- 1) Grout modulus, Xg,
- 2) Grout cracking strain,  $X\epsilon$ ,
- 3) Soil modulus for primary consolidation, Xk,
- 4) Static settlement rate for secondary consolidation, Xr,
- 5) Size of the seismic differential settlement region, Xs,
- 6) Magnitude of seismic event, Xm, and
- 7) Location of the differential settlement region.

The first five random variables, Xg,  $X\epsilon$ , Xk, Xr, and Xs are assumed to be normally distributed (truncated) in the calculation and log-normally distributed in this appendix.

#### Magnitude of Seismic Event

The magnitude of the seismic event, Xm, is a function of the seismic hazard curve and the amount of settlement for a given size earthquake. The differential settlement (mean and variability) for various time periods is determined by Monte-Carlo simulation. The magnitude of the seismic event can be approximated with a lognormal variable as shown below.

The actual magnitude of differential settlement is only known for seismic events with an annual probability of occurrence of  $4 \times 10^{-4}$  and  $10^{-4}$ . Different assumptions are investigated to determine a continuous probability distribution for these two data points.

Additionally, a conservative bias is introduced in the seismic settlement because each event is assumed to be independent and the resulting settlements are additive.

#### Location of Differential Settlement Region.

The location of the differential settlement region under the vault is assumed to be a uniformly distributed variable. Structural analyses indicate that multiple differential settlement regions, on the average, are not as severe as a single differential settlement region. A conservative bias is introduced by only postulating one single differential settlement region per seismic event.

The vault is divided into 7 zones and the seismic differential settlement for a given earthquake is randomly assigned to one zone. The choice of 7 zones is based on the vault geometry and corresponds to a settlement zone in the center of each 100' cell and on the boundary of each 100' cell. The zones are centered 50' apart, which is roughly the size of the differential settlement region. The resulting total crack area can be shown to be independent of the number of differential settlement zones that the vault is divided into, provided that a minimum number of zones is used. The use of 7 zones is judged to be more than adequate for this purpose.

## **Probabilistic Model**

The total crack area is represented by the product of lognormal variables in this appendix

$$CA = Xm \times Xg \times X\epsilon \times Xk \times Xr \times Xs.$$

where Xm is  $\sum_{i=1}^{7}$  CAi, which is the CA due to a seismic event,

CAi is the total crack area due to  $\Delta i$ ,

 $\Delta i$  is the differential settlement a location i,  $\Delta i = \frac{\Delta s}{7}$ ,

 $\Delta s$  is the total differential settlement,

Xg is a CA factor to account for changes in grout modulus,

 $X\epsilon$  is a CA factor to account for changes in grout cracking strain,

Xk is a CA factor to account for changes in soil subgrade modulus,

Xr is a CA factor to account for changes in secondary consolidation rate,

Xs is a CA factor to account for changes in settlement magnitude.

Since CA is the product of random variables, then it's median is the product of the median of the random variables

$$\overline{CA} = \overline{Xm} \times \overline{Xg} \times \overline{X\epsilon} \times \overline{Xk} \times \overline{Xr} \times \overline{Xs}$$

and the total lognormal standard deviation is

$$\sigma_{\text{lnTotal}} = \sqrt{\sigma_{\text{lnXm}}^2 + \sigma_{\text{lnXg}}^2 + \sigma_{\text{lnX}\epsilon}^2 + \sigma_{\text{lnXk}}^2 + \sigma_{\text{lnXr}}^2 + \sigma_{\text{lnXs}}^2}$$

where  $\overline{X}$  is the median (50%) value of the random variable and  $\sigma_{ln}$  is the lognormal standard deviation.

Since Xg,  $X\epsilon$ , Xk, Xr, Xs are factors to account for variation in input parameters then their median value will be defined as 1.

#### ■ H.3.2 Seismic Settlement

Predicted dynamic settlement data from Geotechnical studies for PC-3 and PC-4 events, Appendix D.

```
ΔPC3 = {.5, .25, .5, .25, .5, 1};
{nPC3, μPC3, σPC3, covPC3} = Stats[%];
N=6
Average=0.5
Standard Deviation=0.25
Coefficient of Variation=0.5
ΔPC4 = {3, 1.5, 2.25, 1.5, 2, 4};
{nPC4, μPC4, σPC4, covPC4} = Stats[%];
N=6
Average=2.375
Standard Deviation=0.886825
Coefficient of Variation=0.3734
```

Conservative estimates of the PC-3 and PC-4 differential settlement, 0.75" and 2.75", are used in the body of the calculation. This bias is removed in this appendix.

## ■ H.3.2.1 Seismic Differential Settlement Model #1

## Seismic Hazard Curve

Define the seismic differential settlement as a function of a uniform random variable X[0,1]. Geotechnical data is available corresponding to PC3 (2,500 year return period) and PC4 (10,000 year return period) events.

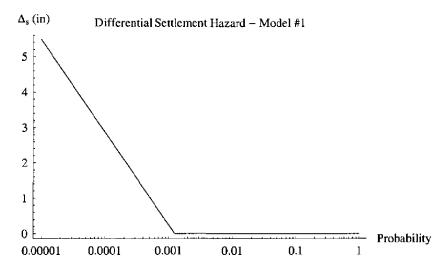
```
Seismic \Delta Data = \{\{4 \times 10^{-4}, \mu PC3\}, \{10^{-4}, \mu PC4\}\} \{\{\frac{1}{2500}, 0.5\}, \{\frac{1}{10000}, 2.375\}\}
```

Assume that the seismic hazard curve is linear through these points. Fit a curve to the data and truncate to avoid negative settlements.

```
Clear[p]
SeismicA = fit = Max[Fit[SeismicAData, {1, Log[10, p]}, p], 0]
Max[0, -10.0822 - 1.35253 Log[p]]
```

Plot the resulting seismic differential settlement hazard curve

 $\label{logLinearPlot} $$ \ LogLinearPlot[Seismic \triangle, \{p, 10^{-5}, 1\}, PlotRange \rightarrow All, AxesLabel \rightarrow "Probability", "$\Delta_s$ (in)"}, $$ \ PlotLabel \rightarrow "Differential Settlement Hazard - Model #1"]; $$$ 



Note that probability is expressed as an exceedance probability. For example, the probability that the seismic differential settlement will exceed 4" in a single year is approximately  $4 \times 10^{-5}$ .

## Total Seismic Differential Settlement for One Observation

The total seismic differential settlement for a single 10,000 year period is calculated in this section. The resulting settlements from many similar periods are examined in the next section to determine the mean and standard deviation of the differential settlement.

Generate an exceedence probability for each individual year over a 10,000 year period. Recall that low probability events lead to differential settlement.

```
PSeismic = RandomArray[UniformDistribution[], 10000];
Shallow[PSeismic]
{0.942818, 0.12615, 0.441279, 0.622717, 0.936228,
 0.532282, 0.799757, 0.0444464, 0.89475, 0.711487, <<9990>>}
```

Only the first few probabilities are shown above to demonstrate that most years will not have seismic events leading to differential settlement. This observation is consistent with experience.

Assign a differential settlement to each year based on the probability and the differential settlement hazard curve developed above. Omit years with zero seismic settlement

```
\Delta s = \{\}; listing = \{\}; \Delta sTotal = 0;
Do [
 p = PSeismic[[i]];
 x = Seismic\Delta;
 If [x > 0,
 \Delta s = Append[\Delta s, x]; \Delta sTotal = \Delta sTotal + x; listing = Append[listing, {i, p, x}]];
 , {i, Length[PSeismic]}]
TableForm[listing, TableHeadings → {None, {"Year", "Annual Probability", "As (in)"}}]
Print["Summation of seismic differential settlement = ", AsTotal" (in)"];
 Annual Probability
 \Delta s (in)
Year
1096
 0.000440239
 0.370354
1118
 0.000195707
 1.46685
3697
 0.000399883
 0.500397
5969
 0.000570669
 0.0193866
6088
 0.000513084
 0.163254
 4.37322
6946
 0.0000228231
 0.732887
7275
 0.000336729
Summation of seismic differential settlement = 7.62635 (in)
Histogram[\Delta s, HistogramCategories \rightarrow \{0.001, 1, 2, 3, 4, 5, 6, 7, 8\},
 AxesLabel → {"\(\Delta\)s (in)", "\(\pi\)", HistogramScale \(\righta\) Automatic];
5
4
3
2
1
```

This data represents one observation, numerous observations are averaged below to determine the mean seismic settlement.

## Mean Seismic Settlement for Model #1

Determine the cumulative seismic settlement for a Period T with n observations.

## Convergence

Calculate the cumulative seismic settlement for a period of 10,000 years using 10, 100 and 1000 observations.

```
\Delta = Model1[10, 10000];
\Delta 1a = \Delta;
SetOptions[Histogram, HistogramScale \rightarrow 1];
\label{eq:histogram} \mbox{\tt Histogram[Δ, AxesLabel} \rightarrow \mbox{\tt "Δs (in)", "PDF"$\tt, PlotLabel} \rightarrow \mbox{\tt "$N=10"]$;}
Average=8.06629
Standard Deviation=3.52661
Coefficient of Variation=0.437203
 PDF
 N=10
0.12
 0.1
0.08
0.06
0.04
0.02
 Δs (in)
```

 $\Delta = Model1[100, 10000];$  $\Delta lb = \Delta; Histogram[\Delta lb, PlotLabel \rightarrow "N=100"];$ 

10.

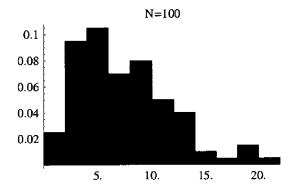
12.

14.

N=100 Average=7.46417 Standard Deviation=4.41177 Coefficient of Variation=0.59106

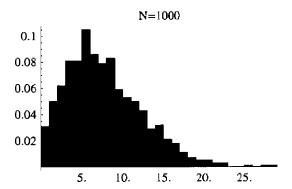
6.

4.



#### $\Delta = Model1[1000, 10000];$ $\Delta lc = \Delta; Histogram[\Delta lc, PlotLabel \rightarrow "N=1000"];$

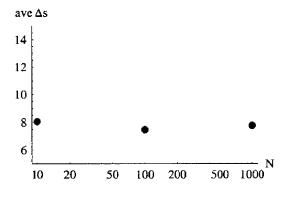
N=1000 Average=7.76792 Standard Deviation=4.6 Coefficient of Variation=0.592179



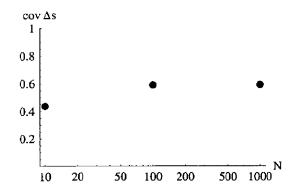
Compare solutions for 10, 100 and 1000 observations.

 $\{n, ave, std, cov\} = \\ soln1 = Transpose[\{Stats[\Delta la, False], Stats[\Delta lb, False], Stats[\Delta lc, False]\}];$ 

avel = LogLinearListPlot[Transpose[ $\{n, ave\}$ ], Prolog  $\rightarrow$  AbsolutePointSize[7], PlotRange  $\rightarrow$   $\{5, 15\}$ , AxesLabel  $\rightarrow$   $\{"N", "ave \( \Delta s" \} \}$ ;



ave2 = LogLinearListPlot[Transpose[ $\{n, cov\}$ ], Prolog  $\rightarrow$  AbsolutePointSize[7], PlotRange  $\rightarrow$   $\{0, 1\}$ , AxesLabel  $\rightarrow$   $\{"N", "cov \Deltas"\}$ ];



Solutions are roughly stable at  $N \ge 100$ . Note that large numbers of observations are required to define the shape of the distribution while smaller numbers of observations are required top define the mean and cov.

## **Lognormal Distribution**

Demonstrate that the distribution of  $\Delta s$  can be represented by a lognormal distribution by comparing the histogram and probability density function (PDF). Use N=1000 observations

Statitistics for 1000 observations

$$\{n, \mu, \sigma, cov\} = Stats[\Delta lc];$$

N=1000 Average=7.76792 Standard Deviation=4.6 Coefficient of Variation=0.592179

Median Δs

$$Med = \frac{\mu}{\sqrt{1 + cov^2}}$$

6.68389

Lognormal standard deviation

$$\sigma \ln = \sqrt{\log[1 + \cos^2]}$$

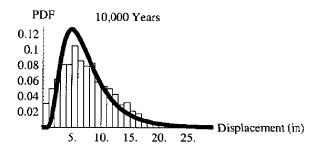
0.548275

Lognormal probability density function

Clear[x];  
dist = 
$$\frac{1}{\pi \sigma \ln \sqrt{2 \pi}} e^{-\frac{1}{2} \left(\frac{\log[x] - \log[Med]}{\sigma \ln}\right)^2}$$
  
 $\frac{0.727632 e^{-1.66331 (-1.8997 + \log[x])^2}}{x}$ 

Compare unit histogram and lognormal probability density function

```
pdf = Plot[dist, {x, .1, 35}, PlotRange → All,
 PlotStyle → {AbsoluteThickness[4]}, DisplayFunction → Identity];
bar = Histogram[Δlc, HistogramScale → 1, BarStyle → {GrayLevel[1]},
 DisplayFunction → Identity];
Show[bar, pdf, DisplayFunction → $DisplayFunction,
 AxesLabel → {"Displacement (in)", "PDF"}, PlotLabel → "10,000 Years"];
```



Conclusion: The distribution of seismic displacements can be approximated by a lognormal distribution

## Additional Time Periods

Calculate the cumulative seismic settlement for a periods of 2,500, 1,000 and 500 years.

```
N=100
Average=1.99837
Standard Deviation=2.09268
Coefficient of Variation=1.0472
0.4
0.3
0.2
0.1
2. 4. 6. 8. 10. 12.
```

 $T1d = 2500; \Delta = Model1[100, T1d];$ 

 $\Delta 1d = \Delta$ ; Histogram[ $\Delta$ ];

# T1e = 1000; $\triangle$ = Model1[100, T1e]; $\Delta$ 1e = $\Delta$ ; Histogram[ $\Delta$ ]; N=100 Average=0.61383 Standard Deviation=1.03886 Coefficient of Variation=1.69242 1.2 1 0.8 0.6 0.4 0.2 1. 2. 3. 5. $T1f = 500; \Delta = Model1[100, T1f];$ $\Delta 1f = \Delta$ ; Histogram[ $\Delta$ ]; N=100 Average=0.287912 Standard Deviation=0.903938 Coefficient of Variation=3.13963 1.75 1.5 1.25 1 0.75 0.5 0.25

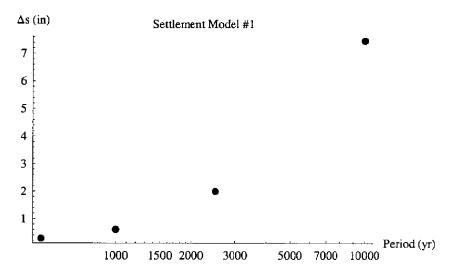
Compare solutions for different periods

```
{n, ave, std, cov} = solns =
 Transpose[{Stats[\Delta1b, False], Stats[\Delta1d, False], Stats[\Delta1e, False], Stats[\Delta1f, False]}]
T = {10000, 2500, 1000, 500};

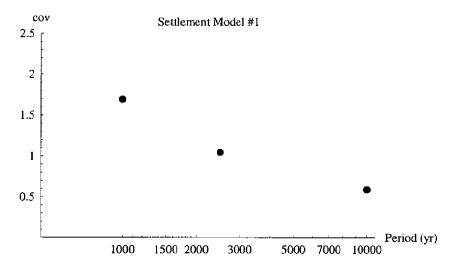
{{100, 100, 100, 100}, {7.46417, 1.99837, 0.61383, 0.287912},
 {4.41177, 2.09268, 1.03886, 0.903938}, {0.59106, 1.0472, 1.69242, 3.13963}}
```

5.

LogLinearListPlot[Transpose[{T, ave}], Prolog → AbsolutePointSize[7], PlotRange → All, AxesLabel → {"Period (yr)", "Δs (in)"}, PlotLabel → "Settlement Model #1"];



 $\label{logLinearListPlot[Transpose[{T, cov}], Prolog $\rightarrow$ AbsolutePointSize[7], PlotRange $\rightarrow$ {0, 2.5}, $$ AxesLabel $\rightarrow$ {"Period (yr)", "cov"}, PlotLabel $\rightarrow$ "Settlement Model $1"]; $$$ 



#### ■ H.3.2.2 Seismic Differential Settlement Model #2

The body of this calculation assumes that the seismic differential displacement of 4" at a 100,000 year return period. Model #1 is revised to incorporate this data and the results are compared.

Additional settlement data for low probability events

Seismic 
$$\Delta Data2 = \{\{10^{-4}, \mu PC4\}, \{10^{-5}, 4\}\}$$
  $\{\{\frac{1}{10000}, 2.375\}, \{\frac{1}{100000}, 4\}\}$ 

Fit a curve to the data

```
Clear[p]
fit2 = Fit[SeismicAData2, {1, Log[10, p]}, p]
-4.125 - 0.705729 Log[p]

Set up a function that uses fit for higher probability events and fit2 for low probability events

SeismicA2[p_] := If[p > 10^4, fit, fit2]

Plot both Models #1 and #2. Model #2 predicts less settlement for very low probability events.

LogLinearFlot[{SeismicA, SeismicA2[p]}, {p, 10^-5, .001},
 PlotRange → All, AxesLabel → {"Probability", "A, (in)"},
 PlotLabel → "Differential Settlement Hazard - Models #1 & #2"];

As (in) Differential Settlement Hazard - Models #1 & #2

5
4
3
2
```

## Mean Seismic Settlement for Model #2

0.00005 0.0001 0.0002

1

0

0.00001 0.00002

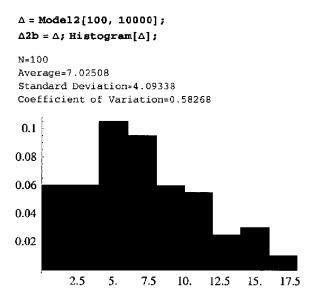
Define a function to determine the cumulative seismic settlement for Period T and n observations.

0.0005

0.001

Probability

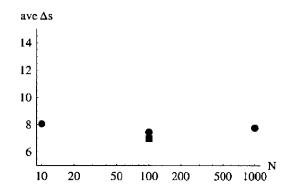
Calculate the accumulated seismic displacements for a 10,000 year period using n=100



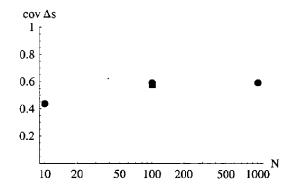
## ■ H.3.2.3 Comparison of Seismic Settlement Models

Compare Model #1 (●) and Model #2 (■)

 ${n, ave, std, cov} = Stats[\Delta 2b, False];$ Show[ave1, Graphics[Text["E", {Log[10, 100], ave}]]];



Show[ave2, Graphics[Text[" $\blacksquare$ ", {Log[10, 100], cov}]]];



The difference between Model #1 and Model #2 is less than the variability within each model.

## ■ H.3.3 Median Crack Area Estimate

## ■ H.3.3.1 Crack Area Relationships

The crack area corresponding to seismic settlement events at locations 1 through 7 from the FEM analyses is summarized below. Each crack area corresponds to best estimate soil, grout data and settlement size at a time of 1000 years.

```
loc = {"Loc 1-bot", "Loc 2-bot", "Loc 3-bot", "Loc 4-bot",
 "Loc 5-bot", "Loc 6-bot", "Loc 7-bot", "Loc 1-top", "Loc 2-top",
 "Loc 3-top", "Loc 4-top", "Loc 5-top", "Loc 6-top", "Loc 7-top"};
loc = {"Loc 1", "Loc 2", "Loc 3", "Loc 4", "Loc 5", "Loc 6", "Loc 7"};
PC3 = \{0, 0, 25.5, 49.92, 71.76, 0, 0, 0, 0, 0, 0, 0, 0, 0\};
PC4 =
 {29.48, 73.32, 110.16, 155.52, 157.14, 176.58, 0, 0, 37.26, 55.08, 59.94, 19.44, 43.74, 0};
TableForm[Transpose[{Take[PC3, 7], Take[PC4, 7], Take[PC3, -7], Take[PC4, -7]}],
 TableHeadings → {loc, {"PC-3 Bot", "PC-4 Bot", "PC-3 Top", "PC-4 Top"}}]
 PC-3 Bot
 PC-4 Bot
 PC-3 Top
 PC-4 Top
Loc 1
 0
 29.48
Lcc 2
 0
 73.32
 0
 37.26
 110.16
Loc 3
 25.5
 0
 55.08
Loc 4
 49.92
 155.52
 0
 59.94
 0
Loc 5
 71.76
 157.14
 19.44
Loc 6
 0
 176.58
 0
 43.74
Loc 7
 0
```

Fit a line through each pair of data as a function of differential settlement. Ensure that the crack area is always positive. Note that the FEM analyses are based on (1) PC-3 events with 0.75" of differential settlement; and () PC-4 events with 2.75" of differential settlement.

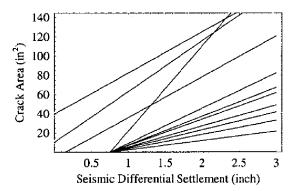
```
Clear[∆];
\Delta PC34 = \{0.75, 2.75\};
CA = \{\};
Do [
 z = \{ \{ \Delta PC34[[1]], PC3[[i]] \}, \{ \Delta PC34[[2]], PC4[[i]] \} \};
 CA = Append[CA, Max[0, Fit[z, \{1, \Delta\}, \Delta]];
 , {i, 1, Length[PC3]}]
CAb = Take [CA, 7];
CAt = Take[CA, -7];
TableForm[Transpose[{CAb, CAt}],
 TableHeadings → {loc, {"Bot Crack Area", "Top Crack Area"}}]
 Bot Crack Area
 Top Crack Area
Loc 1
 Max[0, -11.055 + 14.74 \Delta]
 Max[0, 0. + 0. \Delta]
Loc 2
 Max[0, -27.495 + 36.66 \Delta]
 Max[0, -13.9725 + 18.63 \Delta]
 Max[0, -6.2475 + 42.33 \Delta]
 Max[0, -20.655 + 27.54 \Delta]
Loc 3
 Max[0, 10.32 + 52.8 \Delta]
 Max[0, -22.4775 + 29.97 \Delta]
 Max[0, 39.7425 + 42.69 \Delta]
 Max[0, -7.29 + 9.72 \Delta]
Loc 5
Loc 6
 Max[0, -66.2175 + 88.29 \Delta]
 Max[0, -16.4025 + 21.87 \Delta]
Loc 7
 Max[0, 0. + 0. \Delta]
 Max[0, 0.+0.\Delta]
```

Plot the individual crack area curves

```
Plot[Evaluate[CA], \{\Delta, 0, 3\}, Frame \rightarrow True,

FrameLabel \rightarrow {"Seismic Differential Settlement (inch)", "Crack Area (in<sup>2</sup>)"},

PlotRange \rightarrow {{0, Automatic}, {0, Automatic}}];
```



## ■ H.3.3.2 Median Crack Area

Determine the median crack area for a Period T with n observations. The approach taken is similar to calculation of  $\Delta s$  in Model 1. However, once a non-zero seismic displacement is calculated, then the diaplacement is randomally assigned to one of the 7 locations and the corresponding crack area is calculated. All of the crack areas are summed together.

```
Clear[CrackArea, p];
CrackArea[n_, T_] := Module[{},
 ca = {};
 Do [
 cab = cat = 0;
 Do [p = Random[];
 \Delta s = Seismic \Delta;
 If [\Delta s > 0,
 lccn = Random[Integer, {1, 7}];
 cat = cat + CAt [locn] /. \triangle \rightarrow \triangle s;
 cab = cab + CAb[[locn]] /. \triangle \rightarrow \triangle s;
];
 , {T}];
 ca = Append[ca, {cab, cat}];
 , {n}];
 {cab, cat} = Transpose[ca];
 Print["Total Bottom Crack Area (in2)"]; Stats[cab];
 Print["Total Top Crack Area (in2)"]; Stats[cat];
 {cab, cat}];
```

## **Crack Areas for Various Periods**

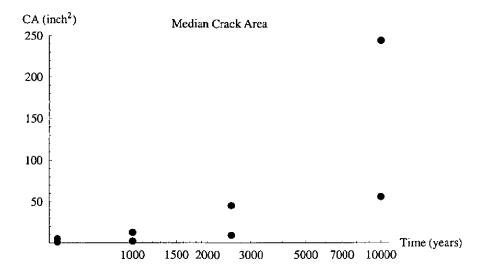
```
T1 = T = 10000;
{cab1, cat1} = CrackArea[100, T];
Total Bottom Crack Area (in2)
N=100
Average=299.154
Standard Deviation=211.722
Coefficient of Variation=0.707738
Total Top Crack Area (in2)
N=100
Average=77.7886
Standard Deviation=75.2141
Coefficient of Variation=0.966904
T2 = T = 2500;
{cab2, cat2} = CrackArea[100, T];
Total Bottom Crack Area (in2)
N=100
Average=72.8814
Standard Deviation=91.3856
Coefficient of Variation=1.2539
Total Top Crack Area (in2)
N = 100
Average=18.2076
Standard Deviation=30.1546
Coefficient of Variation=1.65615
```

```
T3 = T = 1000;
{cab3, cat3} = CrackArea[100, T];
Total Bottom Crack Area (in2)
N=100
Average=36.2603
Standard Deviation=97.4137
Coefficient of Variation=2.68651
Total Top Crack Area (in2)
N=100
Average=7.32096
Standard Deviation=25.272
Coefficient of Variation=3.45201
T4 = T = 500;
{cab4, cat4} = CrackArea[100, T];
Total Bottom Crack Area (in2)
N=100
Average=15.5225
Standard Deviation=43.8927
Coefficient of Variation=2.82769
Total Top Crack Area (in2)
N=100
Average=3.51003
Standard Deviation=12.0225
Coefficient of Variation=3.42519
```

Determine the median crack area for bottom and top cracks

Plot data for the bottom and top crack areas

```
T = {T1, T2, T3, T4};
LogLinearListPlot[Transpose[{Join[T, T], Join[medianB, medianT]}],
Prolog → AbsolutePointSize[7], PlotRange → {0, Automatic},
AxesLabel → {"Time (years)", "CA (inch²)"}, PlotLabel → "Median Crack Area"];
```



Print["Crack Area (in²) Due to Xm"]

TableForm[Transpose[{T, meanB, meanT, medianB, medianT}],

TableHeadings → {None, {"Time (yr)", "Bot Mean", "Top Mean", "Bot Median", "Top Median"}}]

Time (yr)	Bot Mean	Top Mean	Bot Median	Top Median
10000	299.154	77.7886	244.185	55.9225
2500	72.8814	18.2076	45.4423	9.41136
1000	36.2603	7.32096	12.6493	2.03703
500	15.5225	3.51003	5.17536	0.983701

## ■ H.3.4 Variability of Mean Crack Area Estimate

#### ■ H.3.4.1 Variability of Random Variables

Crack Area (in2) Due to Xm

Recall the PC4 crack area data from the FEM analyses which corresponds to mean value random parameters. The data contains bottom and top crack areas for each of 7 settlement locations.

```
PC4
{29.48, 73.32, 110.16, 155.52, 157.14, 176.58, 0, 0, 37.26, 55.08, 59.94, 19.44, 43.74, 0}
```

Extract the crack area's for the seven differential settlement locations for a PC-4 event using LB and UB data from each of the random variables. Note that only one random variable is varied at a time and all of the remaining variables are set to their mean or best estimate values.

LB corresponds to lower bound value and is assumed to be the mean less one standard deviation. UB corresponds to lower bound value and is assumed to be the mean plus one standard deviation.

Varying the static settlement rate for secondary consolidation, Xr, effected the time at which cracking due to gravity loads occurred by did not have a significant influence on the crack area when combined with a PC-4 event. Assign Xr a minimum cov of 0.10 based on judgment.

```
covXr = 0.1;
```

Determine the total crack area for bottom cracks by taking the cov of the sum of the first 7 areas. Similarly, determine the total crack area for the top cracks by summing the last 7 areas. Fit a line for each data set through the points  $(-1\sigma, \frac{LB}{BE})$ ,  $(0\sigma, \frac{BE}{BE})$  and  $(1\sigma, \frac{UB}{BE})$ . Force the line to have a value of 1 at  $0\sigma$ . This line represents the random variable as a function of  $\sigma$ . The cov is the absolute value of the slope of the line.

```
covXg = Abs[{factorBot, factorTop} /.x \rightarrow 1]
{0.107541, 0.138355}
 Variable Xe
XLB = XeLB;
XUB = XeUB;
data = \left\{ \left\{-1, \frac{Plus @@ Take[XLB, 7]}{Plus @@ Take[PC4, 7]} \right\}, \{0, 1\}, \left\{1, \frac{Plus @@ Take[XUB, 7]}{Plus @@ Take[PC4, 7]} \right\} \right\}
\{\{-1, 1.01642\}, \{0, 1\}, \{1, 1.01545\}\}
factorBot = Fit[data, {x}, x]
-0.000484193 x
data = \left\{ \left\{-1, \frac{Plus @@ Take[XLB, -7]}{Plus @@ Take[PC4, -7]} \right\}, \{0, 1\}, \left\{1, \frac{Plus @@ Take[XUB, -7]}{Plus @@ Take[PC4, -7]} \right\} \right\}
\{\{-1, 1.00919\}, \{0, 1\}, \{1, 1.01429\}\}
factorTop = Fit[data, {x}, x]
0.00255268x
covXe = Abs[{factorBot, factorTop} /. x \rightarrow 1]
{0.000484193, 0.00255268}
 Variable Xk
XLB = XkLB;
XUB = XkUB;
data = \left\{ \left\{ -1, \frac{Plus @@ Take[XLB, 7]}{Plus @@ Take[PC4, 7]} \right\}, \{0, 1\}, \left\{ 1, \frac{Plus @@ Take[XUB, 7]}{Plus @@ Take[PC4, 7]} \right\} \right\}
\{\{-1, 0.635545\}, \{0, 1\}, \{1, 1.23691\}\}
factorBot = Fit [data, {x}, x]
0.300684 x
data = \left\{ \left\{-1, \frac{Plus @@ Take[XLB, -7]}{Plus @@ Take[PC4, -7]} \right\}, \{0, 1\}, \left\{1, \frac{Plus @@ Take[XUB, -7]}{Plus @@ Take[PC4, -7]} \right\} \right\}
\{\{-1, 0.349485\}, \{0, 1\}, \{1, 1.71438\}\}
factorTop = Fit[data, {x}, x]
0.682447 \times
covXk = Abs[{factorBot, factorTop} /. x \rightarrow 1]
{0.300684, 0.682447}
 Variable Xs
```

```
XUB = XsUB;
data = {{0, 1}, {1, Plus @@ Take [XUB, 7] }}
{{0, 1}, {1, 1.4771}}
factorBot = Fit [data, {x}, x]
1.4771 x
data = {{0, 1}, {1, Plus @@ Take [XUB, -7] }}
{{0, 1}, {1, 2.12949}}
factorTop = Fit [data, {x}, x]
2.12949 x
covXs = Abs [{factorBot, factorTop} /. x → 1]
{1.4771, 2.12949}
```

#### ■ H.3.4.2 Bottom Crack Areas

The cov of the bottom crack areas, except Xm, is

```
covBot = {covXg[[1], covXe[[1]], covXk[[1]], covXr, covXs[[1]]}
{0.107541, 0.000484193, 0.300684, 0.1, 1.4771}
```

Logarithmic standard deviation for each variable, except Xm

$$\sigma \ln = \sqrt{\log[1 + \text{covBot}^2]}$$
{0.107232, 0.000484193, 0.294201, 0.0997513, 1.07585}

Logarithmic standard deviation of Xm for various periods, T

$$\sigma \ln Km = \sqrt{Log[1 + covB^2]}$$
{0.637228, 0.971999, 1.45129, 1.48215}

Total logarithmic standard deviation for various periods, T

$$\sigma$$
lnBot = Table  $\left[\sqrt{\text{Plus @@ }\sigma \ln^2 + \sigma \ln \text{Xm}[i]^2}, \{i, \text{Length}[\text{covB}]\}\right]$  {1.29287, 1.48669, 1.83622, 1.8607}

The bottom crack coefficient of variation for various periods, T

covBot = 
$$\sqrt{e^{\circ lnBot^2} - 1}$$
  
{2.07852, 2.8492, 5.3036, 5.55767}

Median crack area for various periods, T

#### medianB

{244.185, 45.4423, 12.6493, 5.17536}

Mean crack area for various periods, T

meanB = medianB 
$$\sqrt{1 + \text{covBot}^2}$$
 {563.229, 137.217, 68.2688, 29.2248}

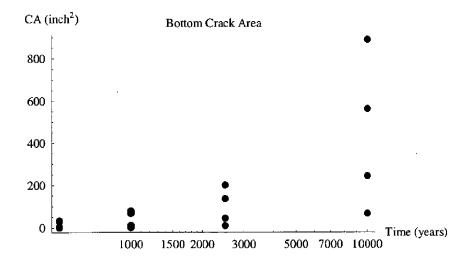
mean - 1  $\sigma$  crack area for various periods, T

mean+1  $\sigma$  crack area for various periods, T

calbUB = medianB  $e^{+1 \text{ olnBot}}$ 

{889.625, 200.965, 79.3462, 33.2686}

LogLinearListPlot[Transpose[{Join[T, T, T], Join[meanB, medianB, calbUB, calbLB]}],
Prolog → AbsolutePointSize[7], PlotRange → All,
AxesLabel → {"Time (years)", "CA (inch²)"}, PlotLabel → "Bottom Crack Area"];



```
\label{eq:prints} \begin{split} & \texttt{Prints}[\texttt{"Bottom Crack Area"}]; \\ & \texttt{TableForm}[\texttt{Transpose}[\{\texttt{T, meanB, medianB, calbUB, calbLB, covBot}]], \\ & \texttt{TableHeadings} \rightarrow \{\texttt{None}, \, \{\texttt{"Time"}, \, \texttt{"Mean"}, \, \texttt{"Mean+1}\sigma", \, \texttt{"Mean-1}\sigma", \, \texttt{"cov"}\}\}] \end{split}
```

Bottom Crack Area

Time	Mean	Median	Mean+ $1\sigma$	Mean-1 $\sigma$	cov
10000	563.229	244.185	889.625	67.0243	2.07852
2500	137.217	45.4423	200.965	10.2754	2.8492
1000	68.2688	12.6493	79.3462	2.01653	5.3036
500	29.2248	5.17536	33.2686	0.805095	5.55767

#### ■ H.3.4.3 Top Crack Areas

The cov of the top crack areas, except Xm, is

```
covTop = {covXg[2], covXe[2], covXk[2], covXr, covXs[2]}
{0.138355, 0.00255268, 0.682447, 0.1, 2.12949}
```

Logarithmic standard deviation for each variable, except Xm

$$\sigma \ln = \sqrt{\log[1 + \text{covTop}^2]}$$
{0.1377, 0.00255267, 0.618349, 0.0997513, 1.30807}

Logarithmic standard deviation of Xm for various periods, T

$$\sigma \ln Xm = \sqrt{Log [1 + covT^2]}$$
{0.812439, 1.14885, 1.59953, 1.59503}

Total logarithmic standard deviation for various periods, T

$$\sigma$$
InTop = Table  $\left[\sqrt{\text{Plus @@ }\sigma \text{In}^2 + \sigma \text{InXm}[i]}^2}, \{i, \text{Length}[\text{covT}]\}\right]$  {1.66804, 1.85531, 2.16352, 2.16019}

The bottom crack coefficient of variation for various periods, T

**covTop** = 
$$\sqrt{e^{\sigma \ln Top^2} - 1}$$
 {3.89324, 5.50041, 10.3372, 10.2624}

Median crack area for various periods, T

#### međianT

```
{55.9225, 9.41136, 2.03703, 0.983701}
```

Mean crack area for various periods, T

```
meanT = medianT \sqrt{1 + \text{covTop}^2}
```

{224.787, 52.6149, 21.1555, 10.143}

mean - 1  $\sigma$  crack area for various periods, T

caltLB = medianT  $e^{-1 \text{ olnTop}}$ 

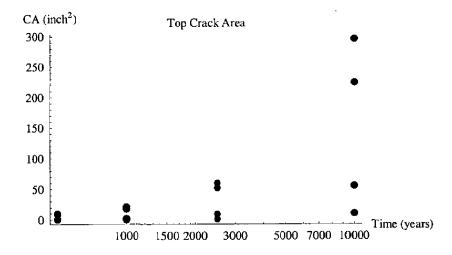
{10.5478, 1.47198, 0.234096, 0.113424}

mean+1  $\sigma$  crack area for various periods, T

caltUB = medianT  $e^{+1 \sigma lnTop}$ 

{296,489, 60.173, 17.7256, 8.53145}

LogLinearListPlot[Transpose[{Join[T, T, T, T], Join[meanT, medianT, caltUB, caltLB]}],
Prolog → AbsolutePointSize[7], PlotRange → All,
AxesLabel → {"Time (years)", "CA (inch²)"}, PlotLabel → "Top Crack Area"];



Print["Top Crack Area"];
TableForm[Transpose[{T, meanT, medianT, caltUB, caltLB, covTop}],
TableHeadings → {None, {"Time", "Mean", "Median", "Mean+10", "Mean-10", "cov"}}]

Top Crack Area

Time	Mean	Median	Mean+1σ	Mean-1σ	COV
10000	224.787	55,9225	296.489	10.5478	3.89324
2500	52.6149	9.41136	60.173	1.47198	5.50041
1000	21.1555	2.03703	17.7256	0.234096	10.3372
500	10.143	0.983701	8.53145	0.113424	10.2624

See H.Z For Conclusion.