APPENDIX B

Slope Stability Analysis Results

STATIC SLOPE STABILITY ANALYSIS RESULTS (TABLE 2A)

CROSS SECTION A-A'

```
PROFIL  D:\newSTED\Static\A1\aj01.in Version G7v2.003 [GSTABL72.EXE]
KHF A-A'                                   Static Janbu Block Search
41 9
0. 832. 40. 832. 7
40. 832. 47. 832. 1
47. 832. 205. 887.6 1
205. 887.6 242. 890. 1
242. 890. 322. 920. 1
322. 920. 652. 940. 1
652. 940. 1117. 947.1 1
1117. 947.1 1242. 949. 1
1242. 949. 1257. 940. 1
53.07 824.14 205. 877.6 2
205. 877.6 242. 880. 2
242. 880. 322. 910. 2
322. 910. 652. 930. 2
652. 930. 1242. 939. 2
1242. 939. 1250. 938.42 2
77.36 812.69 205. 857.6 3
205. 857.6 242. 860. 3
242. 860. 322. 890. 3
322. 890. 652. 910. 3
652. 910. 1242. 919. 3
1242. 919. 1250. 918.42 3
125.95 789.87 205. 817.6 4
205. 817.6 242. 820. 4
242. 820. 322. 850. 4
322. 850. 652. 870. 4
652. 870. 1242. 879. 4
1242. 879. 1250. 878.42 4
40. 832. 47. 827. 7
47. 827. 53.07 824.14 7
53.07 824.14 77.36 812.69 7
77.36 812.69 125.95 789.87 7
125.95 789.87 187. 761. 7
187. 761. 197. 755. 7
197. 755. 212. 753. 7
212. 753. 274. 739. 7
274. 739. 627. 737. 6
627. 737. 747. 740. 6
747. 740. 839. 743. 6
839. 743. 859. 741. 6
859. 741. 1187. 737. 6
1187. 737. 1257. 739. 6
500. 0. 0.
SOIL  Bio5    Bio20   Bio50   Bio130  BEDROCK BL      SL      Eng Fill
8
78.3 78.3 150. 28. 0. 0. 1
94.51 94.51 150. 28. 0. 0. 1
108.65 108.65 150. 28. 0. 0. 1
117.16 117.16 150. 28. 0. 0. 1
130. 130. 800. 40. 0. 0. 1
120. 125. 0. 8. 0. 0. 1
120. 125. 0. 8.5 0. 0. 1
125. 125. 100. 33. 0. 0. 1
EQUAKE
0.0 0.0 0.0 0. 1
BLOCK2
2000 11 10.
40. 829. 40. 829. 0.
47. 824. 47. 824. 0.
187. 758. 187. 758. 0.
197. 752. 197. 752. 0.
212. 750. 212. 750. 0.
274. 736. 274. 736. 0.
627. 734. 627. 734. 0.
747. 737. 747. 737. 0.
839. 740. 839. 740. 0.
859. 738. 859. 738. 0.
```

859.1 738. 1187. 734. 0.

*** GSTABL7 ***

** GSTABL7 by Garry H. Gregory, P.E. **

** Original Version 1.0, January 1996; Current Version 2.003, June 2002 **

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SLOPE STABILITY ANALYSIS SYSTEM

Modified Bishop, Simplified Janbu, or GLE Method of Slices.
(Includes Spencer & Morgenstern-Price Type Analysis)
Including Pier/Pile, Reinforcement, Soil Nail, Tieback,
Nonlinear Undrained Shear Strength, Curved Phi Envelope,
Anisotropic Soil, Fiber-Reinforced Soil, Boundary Loads, Water
Surfaces, Pseudo-Static & Newmark Earthquake, and Applied Forces.

****

Analysis Run Date: 11/7/2003
Time of Run: 09:33AM
Run By: AZ
Input Data Filename: D:\newSTED\Static\A1\aj01.in
Output Filename: D:\newSTED\Static\A1\aj01.OUT
Unit System: English
Plotted Output Filename: D:\newSTED\Static\A1\aj01.PLT
PROBLEM DESCRIPTION: KHF A-A'
Static Janbu Block Search

BOUNDARY COORDINATES
9 Top Boundaries
41 Total Boundaries

Boundary No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Soil Type Below Bnd
1	0.00	832.00	40.00	832.00	7
2	40.00	832.00	47.00	832.00	1
3	47.00	832.00	205.00	887.60	1
4	205.00	887.60	242.00	890.00	1
5	242.00	890.00	322.00	920.00	1
6	322.00	920.00	652.00	940.00	1
7	652.00	940.00	1117.00	947.10	1
8	1117.00	947.10	1242.00	949.00	1
9	1242.00	949.00	1257.00	940.00	1
10	53.07	824.14	205.00	877.60	2
11	205.00	877.60	242.00	880.00	2
12	242.00	880.00	322.00	910.00	2
13	322.00	910.00	652.00	930.00	2
14	652.00	930.00	1242.00	939.00	2
15	1242.00	939.00	1250.00	938.42	2
16	77.36	812.69	205.00	857.60	3
17	205.00	857.60	242.00	860.00	3
18	242.00	860.00	322.00	890.00	3
19	322.00	890.00	652.00	910.00	3
20	652.00	910.00	1242.00	919.00	3
21	1242.00	919.00	1250.00	918.42	3
22	125.95	789.87	205.00	817.60	4
23	205.00	817.60	242.00	820.00	4
24	242.00	820.00	322.00	850.00	4
25	322.00	850.00	652.00	870.00	4
26	652.00	870.00	1242.00	879.00	4
27	1242.00	879.00	1250.00	878.42	4
28	40.00	832.00	47.00	827.00	7
29	47.00	827.00	53.07	824.14	7
30	53.07	824.14	77.36	812.69	7
31	77.36	812.69	125.95	789.87	7
32	125.95	789.87	187.00	761.00	7
33	187.00	761.00	197.00	755.00	7
34	197.00	755.00	212.00	753.00	7
35	212.00	753.00	274.00	739.00	7
36	274.00	739.00	627.00	737.00	6
37	627.00	737.00	747.00	740.00	6
38	747.00	740.00	839.00	743.00	6
39	839.00	743.00	859.00	741.00	6
40	859.00	741.00	1187.00	737.00	6
41	1187.00	737.00	1257.00	739.00	6

User Specified Y-Origin = 500.00(ft)
Default X-Plus Value = 0.00(ft)

Default Y-Plus Value = 0.00(ft)
ISOTROPIC SOIL PARAMETERS
8 Type(s) of Soil

Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Pore Pressure Param.	Pressure Constant (psf)	Piez. Surface No.
1	78.3	78.3	150.0	28.0	0.00	0.0	1
2	94.5	94.5	150.0	28.0	0.00	0.0	1
3	108.7	108.7	150.0	28.0	0.00	0.0	1
4	117.2	117.2	150.0	28.0	0.00	0.0	1
5	130.0	130.0	800.0	40.0	0.00	0.0	1
6	120.0	125.0	0.0	8.0	0.00	0.0	1
7	120.0	125.0	0.0	8.5	0.00	0.0	1
8	125.0	125.0	100.0	33.0	0.00	0.0	1

EARTHQUAKE DATA HAS BEEN SUPPRESSED
A Critical Failure Surface Searching Method, Using A Random Technique For Generating Sliding Block Surfaces, Has Been Specified.
The Active And Passive Portions Of The Sliding Surfaces Are Generated According To The Rankine Theory.
2000 Trial Surfaces Have Been Generated.
11 Boxes Specified For Generation Of Central Block Base
Length Of Line Segments For Active And Passive Portions Of Sliding Block Is 10.0

Box No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Height (ft)
1	40.00	829.00	40.00	829.00	0.00
2	47.00	824.00	47.00	824.00	0.00
3	187.00	758.00	187.00	758.00	0.00
4	197.00	752.00	197.00	752.00	0.00
5	212.00	750.00	212.00	750.00	0.00
6	274.00	736.00	274.00	736.00	0.00
7	627.00	734.00	627.00	734.00	0.00
8	747.00	737.00	747.00	737.00	0.00
9	839.00	740.00	839.00	740.00	0.00
10	859.00	738.00	859.00	738.00	0.00
11	859.10	738.00	1187.00	734.00	0.00

Following Are Displayed The Ten Most Critical Of The Trial Failure Surfaces Evaluated. They Are Ordered - Most Critical First.
* * Safety Factors Are Calculated By The Simplified Janbu Method * *
Total Number of Trial Surfaces Evaluated = 2000
Statistical Data On All Valid FS Values:
FS Max = 3.351 FS Min = 2.798 FS Ave = 2.523
Standard Deviation = 0.513 Coefficient of Variation = 20.34 %
Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.16	738.00
13	861.74	740.97
14	866.89	749.54
15	872.04	758.11
16	877.19	766.68
17	882.34	775.25
18	887.49	783.82
19	892.64	792.40

20	897.79	800.97
21	902.94	809.54
22	908.09	818.11
23	913.24	826.68
24	918.39	835.25
25	923.54	843.83
26	928.69	852.40
27	933.84	860.97
28	939.00	869.54
29	941.93	874.42
30	947.08	882.99
31	952.23	891.57
32	957.38	900.14
33	962.53	908.71
34	966.19	914.79
35	971.34	923.36
36	976.49	931.94
37	978.31	934.98
38	983.46	943.55
39	984.38	945.08

Factor of Safety
*** 2.798 ***

Individual data on the 45 slices

Slice No.	Width (ft)	Weight (lbs)	Water Force Top (lbs)	Water Force Bot (lbs)	Tie Force Norm (lbs)	Tie Force Tan (lbs)	Earthquake Force Hor (lbs)	Earthquake Force Ver (lbs)	Surcharge Load (lbs)
1	3.5	626.7	0.0	0.0	0.	0.	0.0	0.0	0.0
2	7.0	3890.2	0.0	0.0	0.	0.	0.0	0.0	0.0
3	6.1	5749.4	0.0	0.0	0.	0.	0.0	0.0	0.0
4	24.3	50715.6	0.0	0.0	0.	0.	0.0	0.0	0.0
5	48.6	252994.8	0.0	0.0	0.	0.	0.0	0.0	0.0
6	61.0	630311.1	0.0	0.0	0.	0.	0.0	0.0	0.0
7	10.0	138261.0	0.0	0.0	0.	0.	0.0	0.0	0.0
8	8.0	116888.2	0.0	0.0	0.	0.	0.0	0.0	0.0
9	7.0	104437.6	0.0	0.0	0.	0.	0.0	0.0	0.0
10	30.0	465352.8	0.0	0.0	0.	0.	0.0	0.0	0.0
11	32.0	548762.6	0.0	0.0	0.	0.	0.0	0.0	0.0
12	48.0	928581.6	0.0	0.0	0.	0.	0.0	0.0	0.0
13	305.0	6587968.0	0.0	0.0	0.	0.	0.0	0.0	0.0
14	25.0	570902.8	0.0	0.0	0.	0.	0.0	0.0	0.0
15	95.0	2169236.8	0.0	0.0	0.	0.	0.0	0.0	0.0
16	92.0	2087149.9	0.0	0.0	0.	0.	0.0	0.0	0.0
17	20.0	454559.6	0.0	0.0	0.	0.	0.0	0.0	0.0
18	0.2	3658.9	0.0	0.0	0.	0.	0.0	0.0	0.0
19	2.6	58522.0	0.0	0.0	0.	0.	0.0	0.0	0.0
20	5.2	113382.3	0.0	0.0	0.	0.	0.0	0.0	0.0
21	5.2	108257.4	0.0	0.0	0.	0.	0.0	0.0	0.0
22	5.2	103132.5	0.0	0.0	0.	0.	0.0	0.0	0.0
23	5.2	98007.7	0.0	0.0	0.	0.	0.0	0.0	0.0
24	5.2	92882.8	0.0	0.0	0.	0.	0.0	0.0	0.0
25	5.2	87758.0	0.0	0.0	0.	0.	0.0	0.0	0.0
26	5.2	82633.1	0.0	0.0	0.	0.	0.0	0.0	0.0
27	5.2	77508.2	0.0	0.0	0.	0.	0.0	0.0	0.0
28	5.2	72383.4	0.0	0.0	0.	0.	0.0	0.0	0.0
29	5.2	67258.5	0.0	0.0	0.	0.	0.0	0.0	0.0
30	5.2	62133.6	0.0	0.0	0.	0.	0.0	0.0	0.0
31	5.2	57008.7	0.0	0.0	0.	0.	0.0	0.0	0.0
32	5.2	51883.9	0.0	0.0	0.	0.	0.0	0.0	0.0
33	5.2	46759.0	0.0	0.0	0.	0.	0.0	0.0	0.0
34	5.2	41634.2	0.0	0.0	0.	0.	0.0	0.0	0.0
35	2.9	21418.7	0.0	0.0	0.	0.	0.0	0.0	0.0
36	5.2	33777.0	0.0	0.0	0.	0.	0.0	0.0	0.0
37	5.2	29024.4	0.0	0.0	0.	0.	0.0	0.0	0.0
38	5.2	24271.8	0.0	0.0	0.	0.	0.0	0.0	0.0
39	5.2	19519.2	0.0	0.0	0.	0.	0.0	0.0	0.0
40	3.7	10969.7	0.0	0.0	0.	0.	0.0	0.0	0.0

41	5.2	11702.8	0.0	0.0	0.	0.	0.0	0.0	0.0
42	5.2	7568.7	0.0	0.0	0.	0.	0.0	0.0	0.0
43	1.8	1692.0	0.0	0.0	0.	0.	0.0	0.0	0.0
44	5.2	2322.2	0.0	0.0	0.	0.	0.0	0.0	0.0
45	0.9	54.3	0.0	0.0	0.	0.	0.0	0.0	0.0

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.32	738.00
13	861.90	740.96
14	867.05	749.54
15	872.20	758.11
16	877.35	766.68
17	882.50	775.25
18	887.65	783.82
19	892.80	792.39
20	897.95	800.97
21	903.10	809.54
22	908.25	818.11
23	913.40	826.68
24	918.55	835.25
25	923.70	843.82
26	928.85	852.40
27	934.01	860.97
28	939.16	869.54
29	942.09	874.43
30	947.24	883.00
31	952.39	891.57
32	957.54	900.14
33	962.69	908.71
34	966.35	914.80
35	971.50	923.37
36	976.65	931.94
37	978.48	934.98
38	983.63	943.55
39	984.54	945.08

Factor of Safety

*** 2.798 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.32	738.00
13	861.90	740.96
14	867.05	749.54
15	872.20	758.11

16	877.35	766.68
17	882.50	775.25
18	887.65	783.82
19	892.80	792.39
20	897.95	800.97
21	903.10	809.54
22	908.25	818.11
23	913.40	826.68
24	918.55	835.25
25	923.70	843.82
26	928.85	852.40
27	934.01	860.97
28	939.16	869.54
29	942.09	874.43
30	947.24	883.00
31	952.39	891.57
32	957.54	900.14
33	962.69	908.71
34	966.35	914.80
35	971.50	923.37
36	976.65	931.94
37	978.48	934.98
38	983.63	943.55
39	984.54	945.08

Factor of Safety
*** 2.798 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.48	738.00
13	862.06	740.96
14	867.21	749.53
15	872.36	758.11
16	877.51	766.68
17	882.66	775.25
18	887.81	783.82
19	892.96	792.39
20	898.11	800.96
21	903.26	809.54
22	908.41	818.11
23	913.56	826.68
24	918.71	835.25
25	923.86	843.82
26	929.01	852.39
27	934.17	860.97
28	939.32	869.54
29	942.25	874.43
30	947.40	883.00
31	952.55	891.57
32	957.70	900.14
33	962.86	908.71
34	966.51	914.80
35	971.66	923.37
36	976.81	931.94
37	978.64	934.98
38	983.79	943.55

39	984.71	945.08

Factor of Safety
*** 2.799 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.64	737.99
13	862.22	740.96
14	867.37	749.53
15	872.52	758.10
16	877.67	766.68
17	882.82	775.25
18	887.97	783.82
19	893.12	792.39
20	898.27	800.96
21	903.42	809.53
22	908.57	818.11
23	913.72	826.68
24	918.87	835.25
25	924.02	843.82
26	929.17	852.39
27	934.33	860.96
28	939.48	869.54
29	942.42	874.43
30	947.57	883.00
31	952.72	891.57
32	957.87	900.15
33	963.02	908.72
34	966.67	914.80
35	971.82	923.37
36	976.97	931.94
37	978.80	934.99
38	983.95	943.56
39	984.87	945.08

Factor of Safety
*** 2.799 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.80	737.99
13	862.38	740.96
14	867.53	749.53
15	872.68	758.10
16	877.83	766.67
17	882.98	775.25

18	888.13	783.82
19	893.28	792.39
20	898.43	800.96
21	903.58	809.53
22	908.73	818.10
23	913.88	826.68
24	919.03	835.25
25	924.18	843.82
26	929.34	852.39
27	934.49	860.96
28	939.64	869.53
29	942.58	874.43
30	947.73	883.00
31	952.88	891.58
32	958.03	900.15
33	963.18	908.72
34	966.84	914.80
35	971.99	923.37
36	977.14	931.95
37	978.96	934.99
38	984.12	943.56
39	985.03	945.08

Factor of Safety
*** 2.799 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	859.96	737.99
13	862.54	740.96
14	867.69	749.53
15	872.84	758.10
16	877.99	766.67
17	883.14	775.24
18	888.29	783.82
19	893.44	792.39
20	898.59	800.96
21	903.74	809.53
22	908.89	818.10
23	914.04	826.67
24	919.19	835.25
25	924.34	843.82
26	929.50	852.39
27	934.65	860.96
28	939.80	869.53
29	942.74	874.44
30	947.89	883.01
31	953.04	891.58
32	958.19	900.15
33	963.34	908.72
34	967.00	914.81
35	972.15	923.38
36	977.30	931.95
37	979.13	934.99
38	984.28	943.56
39	985.19	945.09

Factor of Safety

*** 2.800 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	860.12	737.99
13	862.70	740.95
14	867.85	749.53
15	873.00	758.10
16	878.15	766.67
17	883.30	775.24
18	888.45	783.81
19	893.60	792.38
20	898.75	800.96
21	903.90	809.53
22	909.05	818.10
23	914.20	826.67
24	919.35	835.24
25	924.50	843.81
26	929.66	852.39
27	934.81	860.96
28	939.96	869.53
29	942.90	874.44
30	948.06	883.01
31	953.21	891.58
32	958.36	900.15
33	963.51	908.72
34	967.16	914.81
35	972.31	923.38
36	977.46	931.95
37	979.29	934.99
38	984.44	943.56
39	985.36	945.09

Factor of Safety

*** 2.800 ***

Failure Surface Specified By 39 Coordinate Points

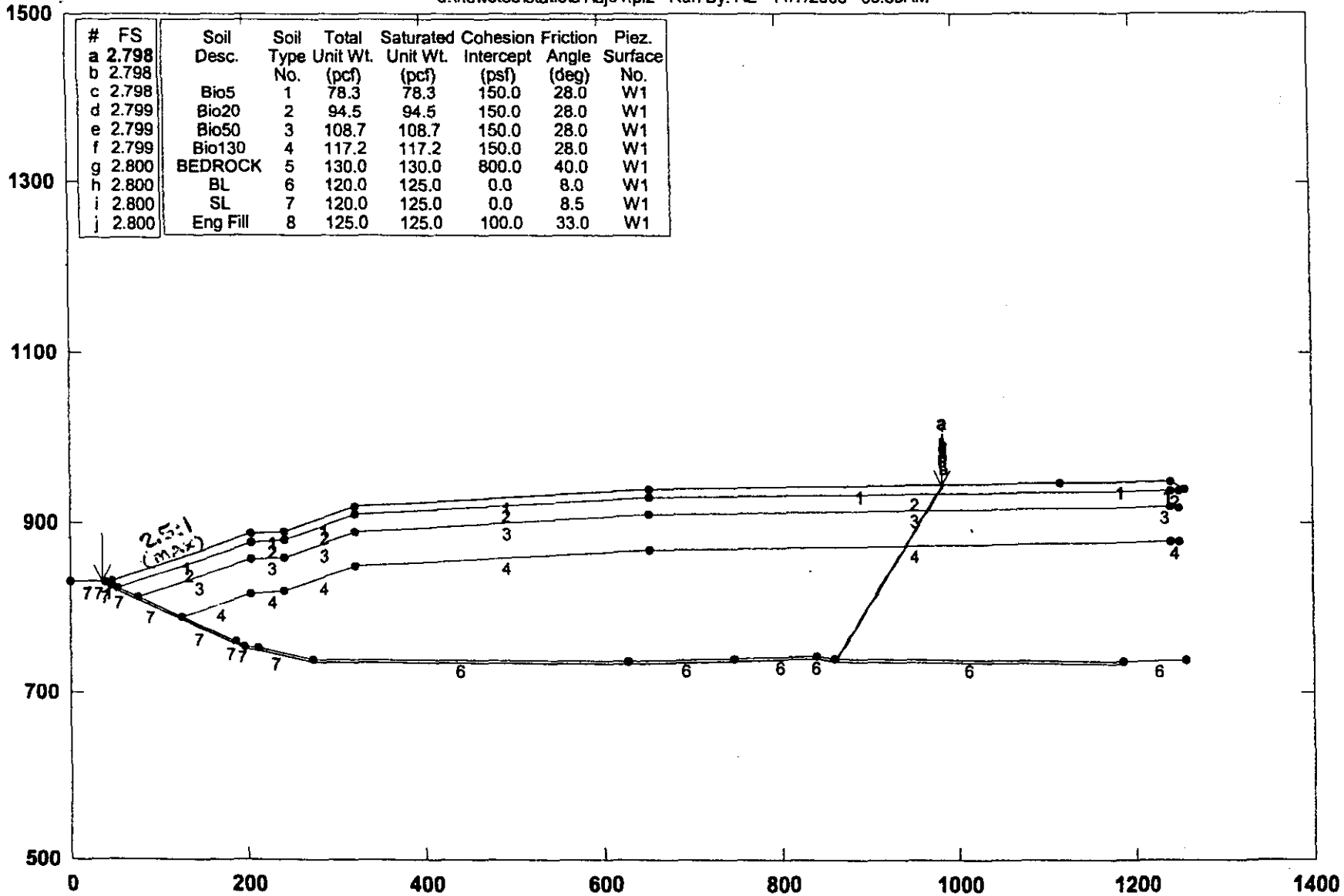
Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	860.12	737.99
13	862.70	740.95
14	867.85	749.53
15	873.00	758.10
16	878.15	766.67
17	883.30	775.24
18	888.45	783.81
19	893.60	792.38

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj01.pl2 Run By: AZ 11/7/2003 09:33AM

#	FS
a	2.798
b	2.798
c	2.798
d	2.799
e	2.799
f	2.799
g	2.800
h	2.800
i	2.800
j	2.800

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=2.798

Safety Factors Are Calculated By The Simplified Janbu Method

GSTABL7

20	898.75	800.96
21	903.90	809.53
22	909.05	818.10
23	914.20	826.67
24	919.35	835.24
25	924.50	843.81
26	929.66	852.39
27	934.81	860.96
28	939.96	869.53
29	942.90	874.44
30	948.06	883.01
31	953.21	891.58
32	958.36	900.15
33	963.51	908.72
34	967.16	914.81
35	972.31	923.38
36	977.46	931.95
37	979.29	934.99
38	984.44	943.56
39	985.36	945.09

Factor of Safety
*** 2.800 ***

Failure Surface Specified By 39 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	36.52	832.00
2	40.00	829.00
3	47.00	824.00
4	187.00	758.00
5	197.00	752.00
6	212.00	750.00
7	274.00	736.00
8	627.00	734.00
9	747.00	737.00
10	839.00	740.00
11	859.00	738.00
12	860.28	737.99
13	862.86	740.95
14	868.01	749.52
15	873.16	758.10
16	878.31	766.67
17	883.46	775.24
18	888.61	783.81
19	893.76	792.38
20	898.91	800.95
21	904.06	809.53
22	909.21	818.10
23	914.36	826.67
24	919.51	835.24
25	924.66	843.81
26	929.82	852.38
27	934.97	860.96
28	940.12	869.53
29	943.07	874.44
30	948.22	883.01
31	953.37	891.58
32	958.52	900.15
33	963.67	908.73
34	967.32	914.81
35	972.47	923.38
36	977.63	931.95
37	979.45	935.00
38	984.60	943.57
39	985.52	945.09

Factor of Safety
*** 2.800 ***

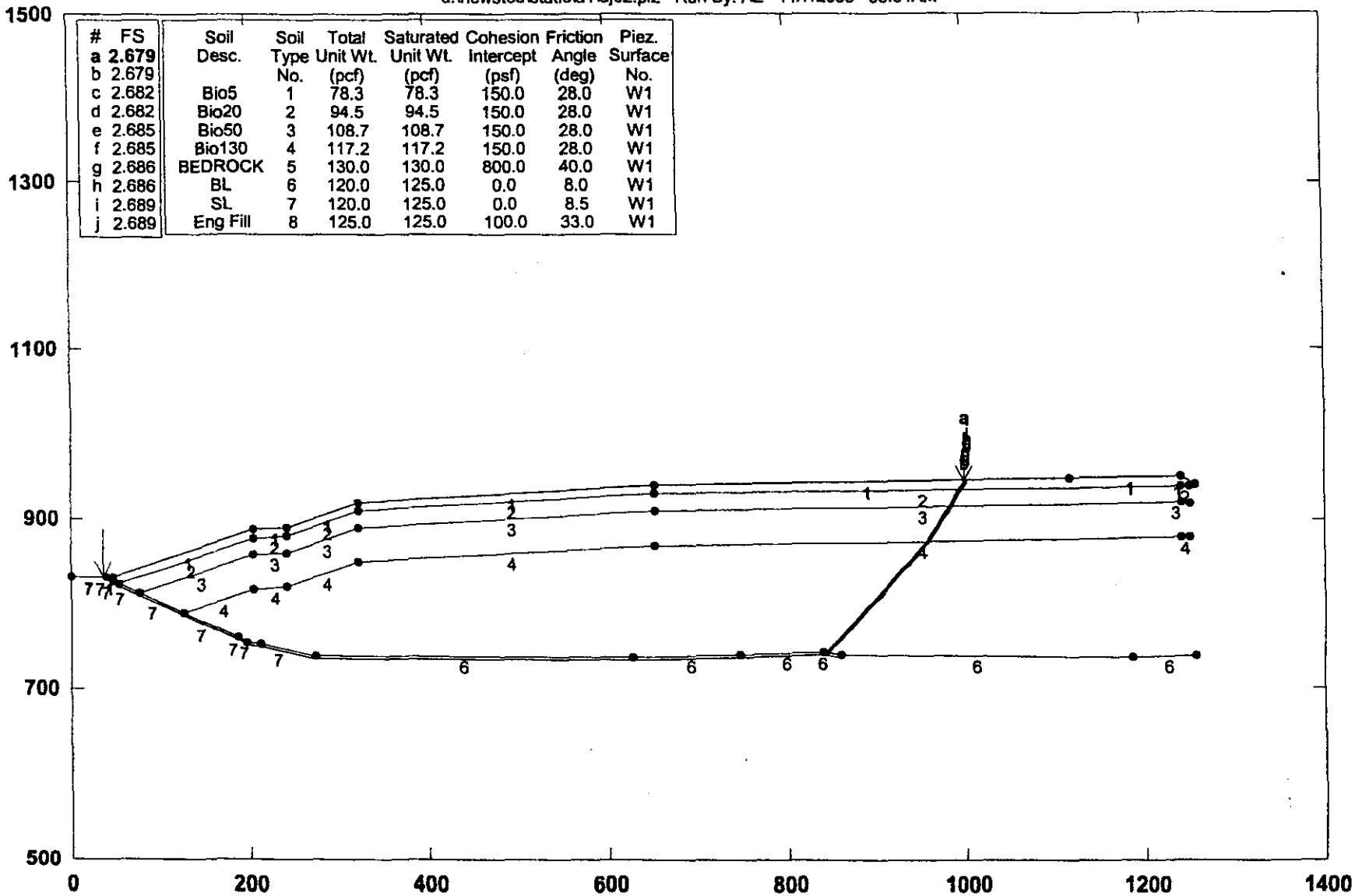
**** END OF GSTABL7 OUTPUT ****

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj02.pl2 Run By: AZ 11/7/2003 09:34AM

#	FS
a	2.679
b	2.679
c	2.682
d	2.682
e	2.685
f	2.685
g	2.686
h	2.686
i	2.689
j	2.689

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=2.679

Safety Factors Are Calculated By The Simplified Janbu Method

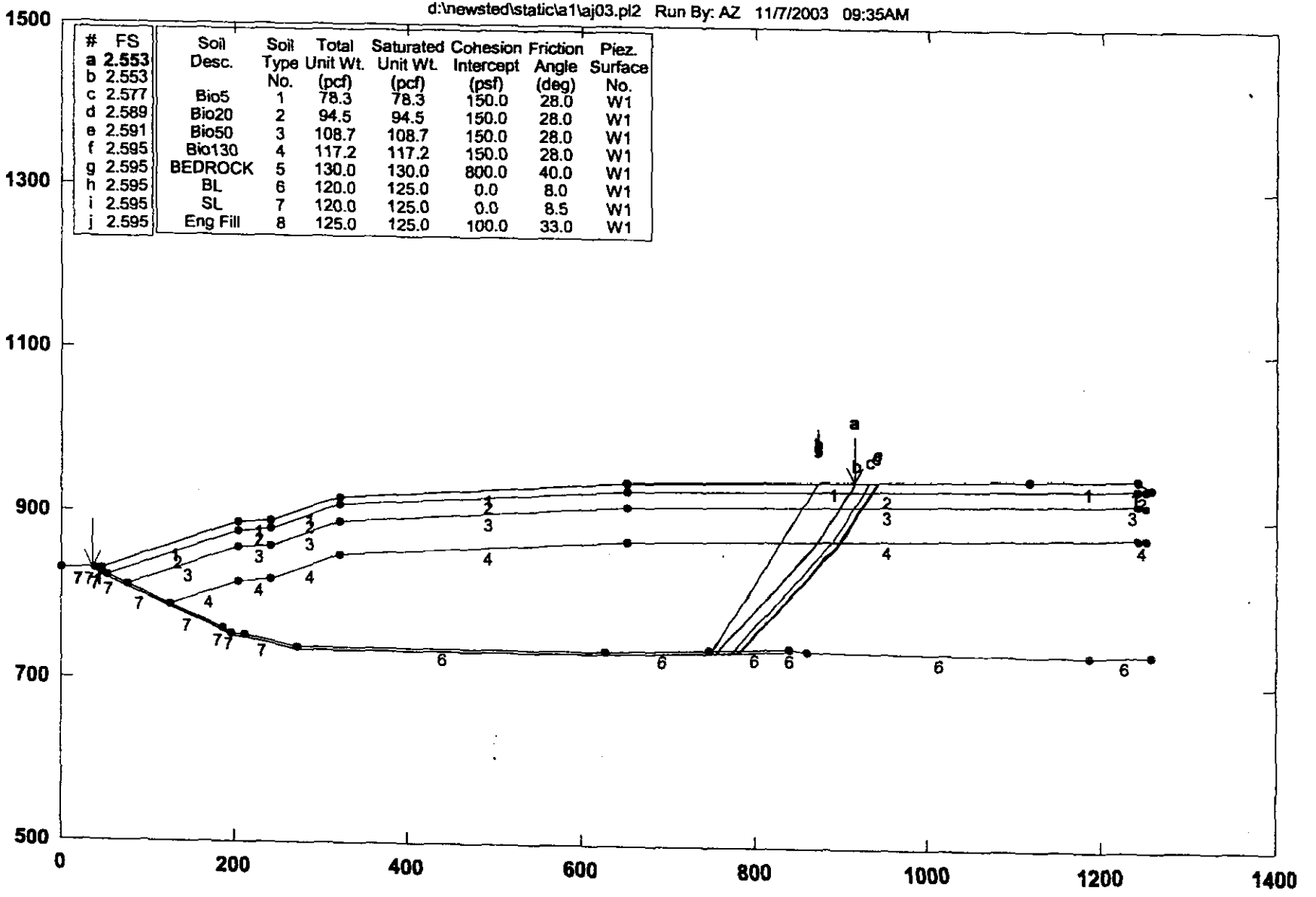
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj03.pl2 Run By: AZ 11/7/2003 09:35AM

#	FS
a	2.553
b	2.553
c	2.577
d	2.589
e	2.591
f	2.595
g	2.595
h	2.595
i	2.595
j	2.595

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=2.553

Safety Factors Are Calculated By The Simplified Janbu Method

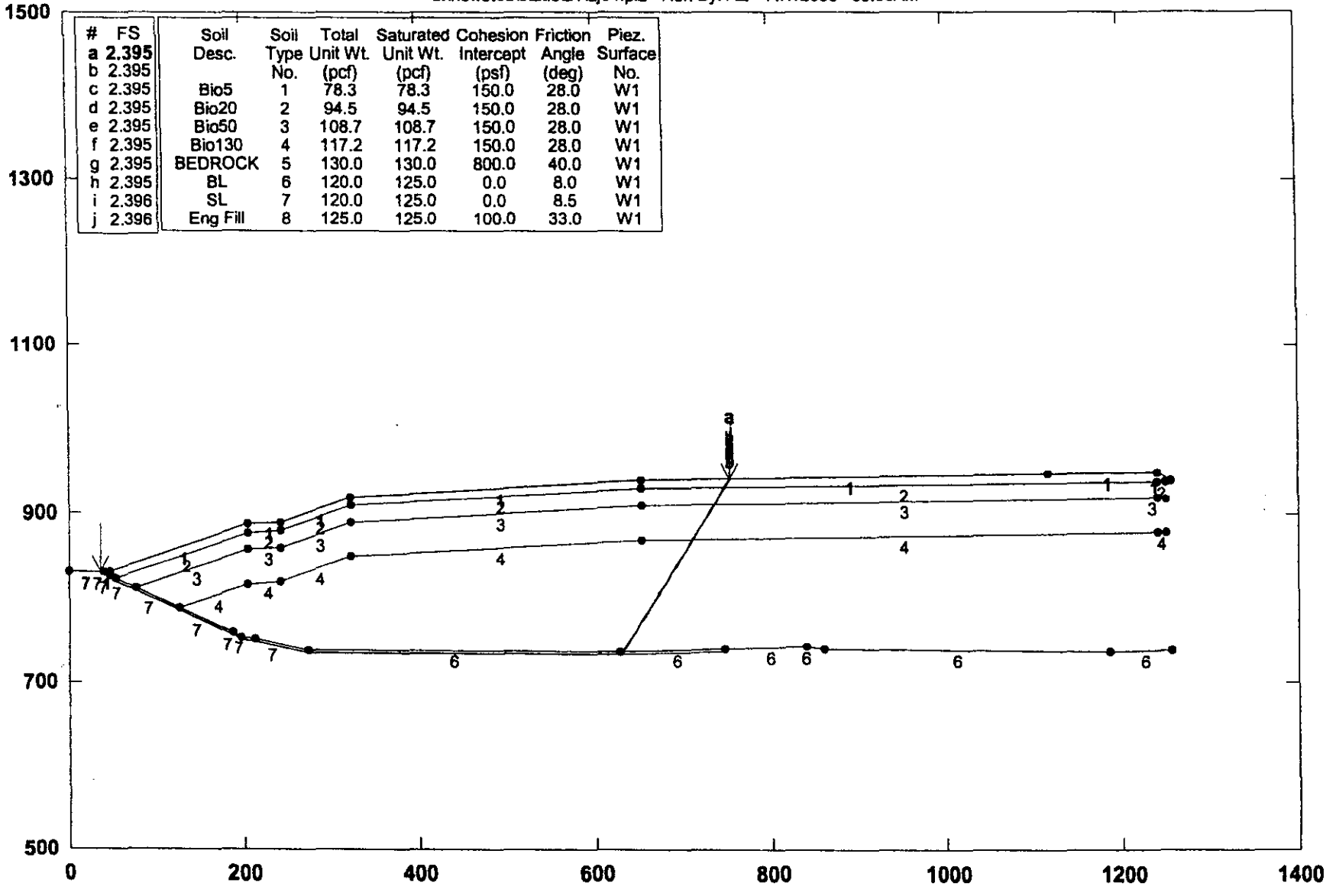
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj04.pl2 Run By: AZ 11/7/2003 09:36AM

#	FS
a	2.395
b	2.395
c	2.395
d	2.395
e	2.395
f	2.395
g	2.395
h	2.395
i	2.396
j	2.396

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=2.395

Safety Factors Are Calculated By The Simplified Janbu Method

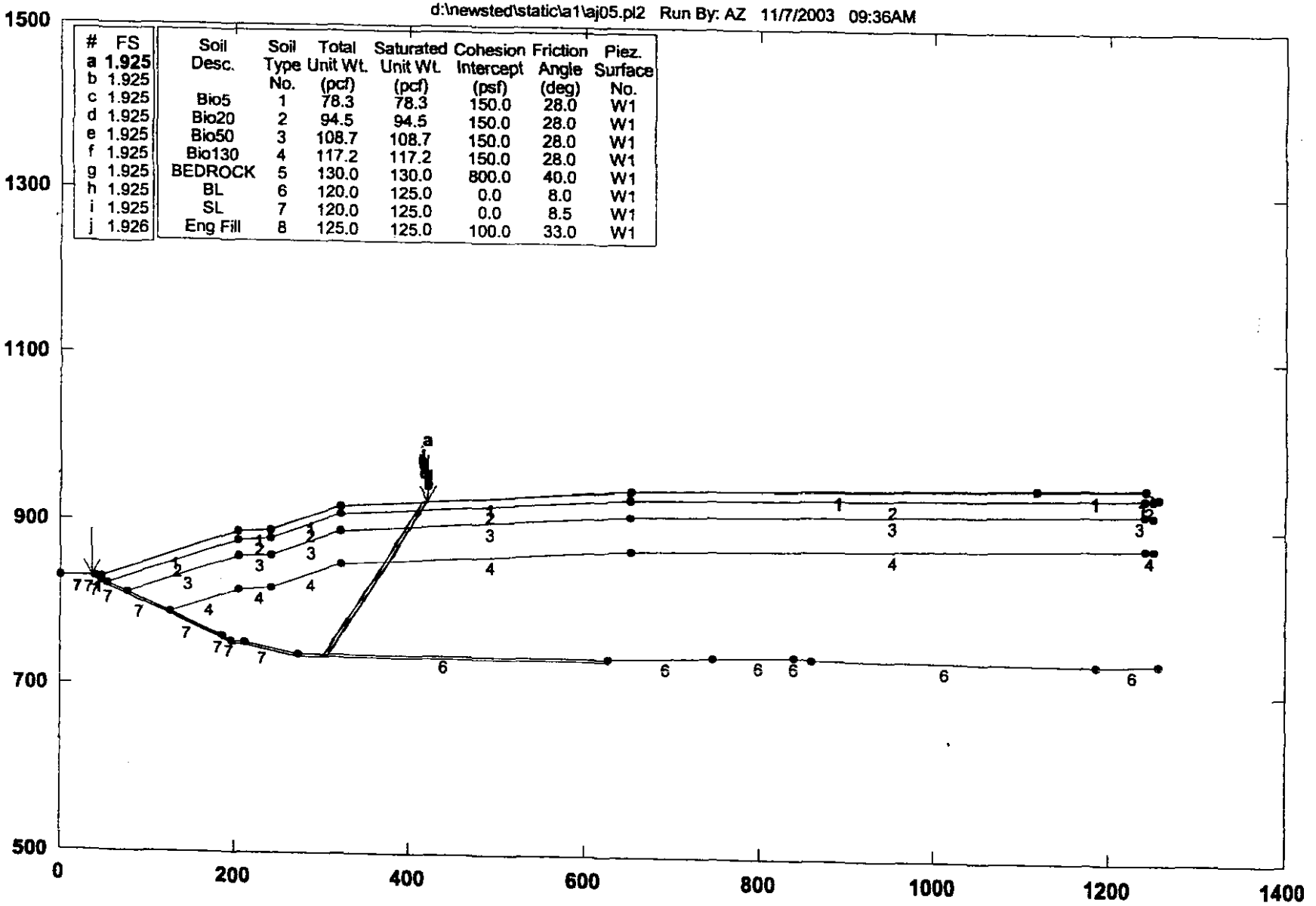
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj05.pl2 Run By: AZ 11/7/2003 09:36AM

#	FS
a	**1.925**
b	1.925
c	1.925
d	1.925
e	1.925
f	1.925
g	1.925
h	1.925
i	1.925
j	1.926

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=1.925

Safety Factors Are Calculated By The Simplified Janbu Method

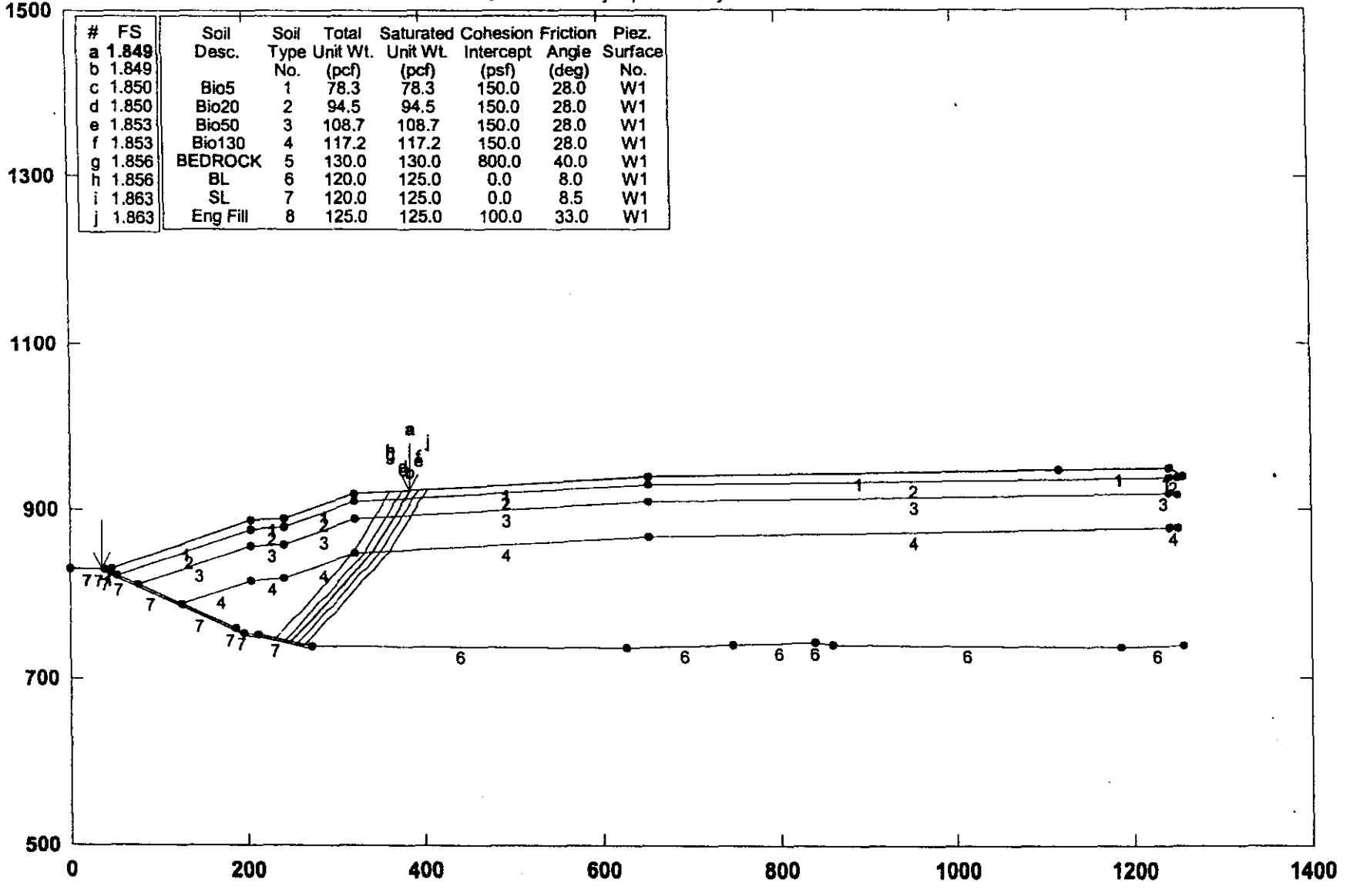
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj06.pl2 Run By: AZ 11/7/2003 09:37AM

#	FS
a	1.849
b	1.849
c	1.850
d	1.850
e	1.853
f	1.853
g	1.856
h	1.856
i	1.863
j	1.863

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=1.849

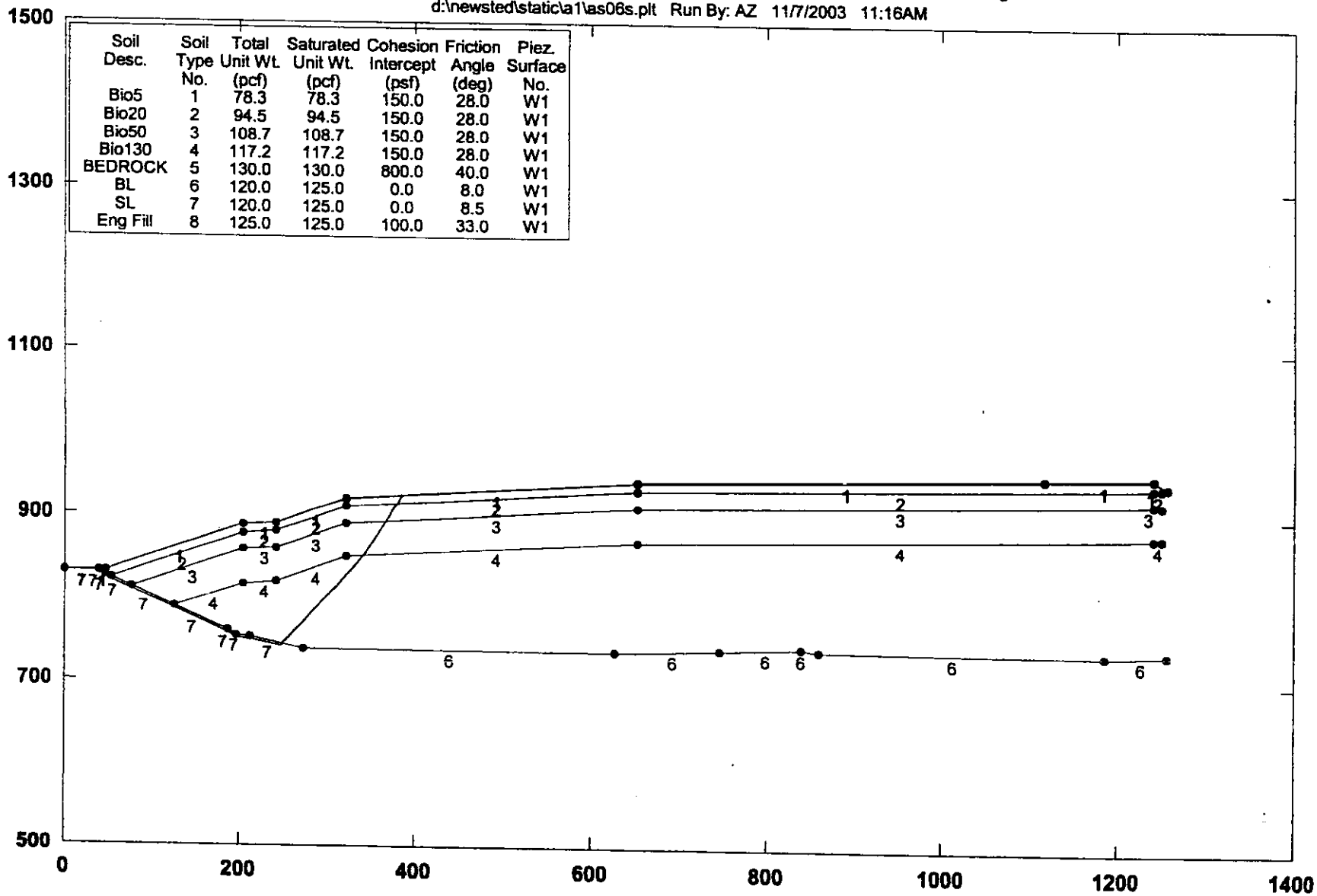
Safety Factors Are Calculated By The Simplified Janbu Method

GSTABL7

KHF A-A' Failure Plane I Janbu Static Slope Stability

d:\newsted\static\a1\as06s.plt Run By: AZ 11/7/2003 11:16AM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=1.849

Factor Of Safety Is Calculated By The Simplified Janbu Method

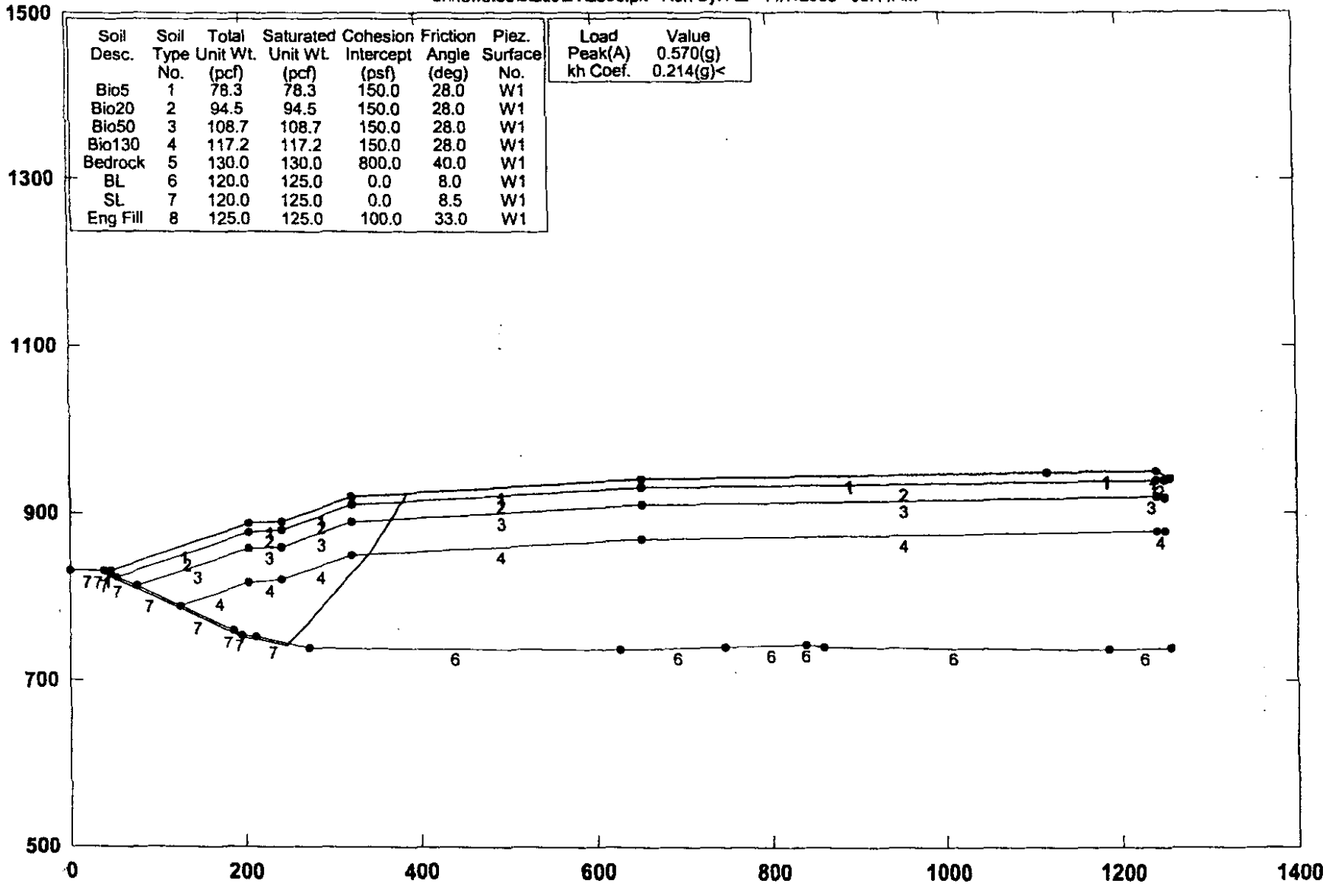
GSTABL7

KHF A-A' Failure Plane I Spencer Pseudo-Static Slope Stability

d:\newsted\static\a1\as06.plt Run By: AZ 11/7/2003 09:41AM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
Bedrock	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.214(g)<



GSTABL7 v.2 FSmin=1.000

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

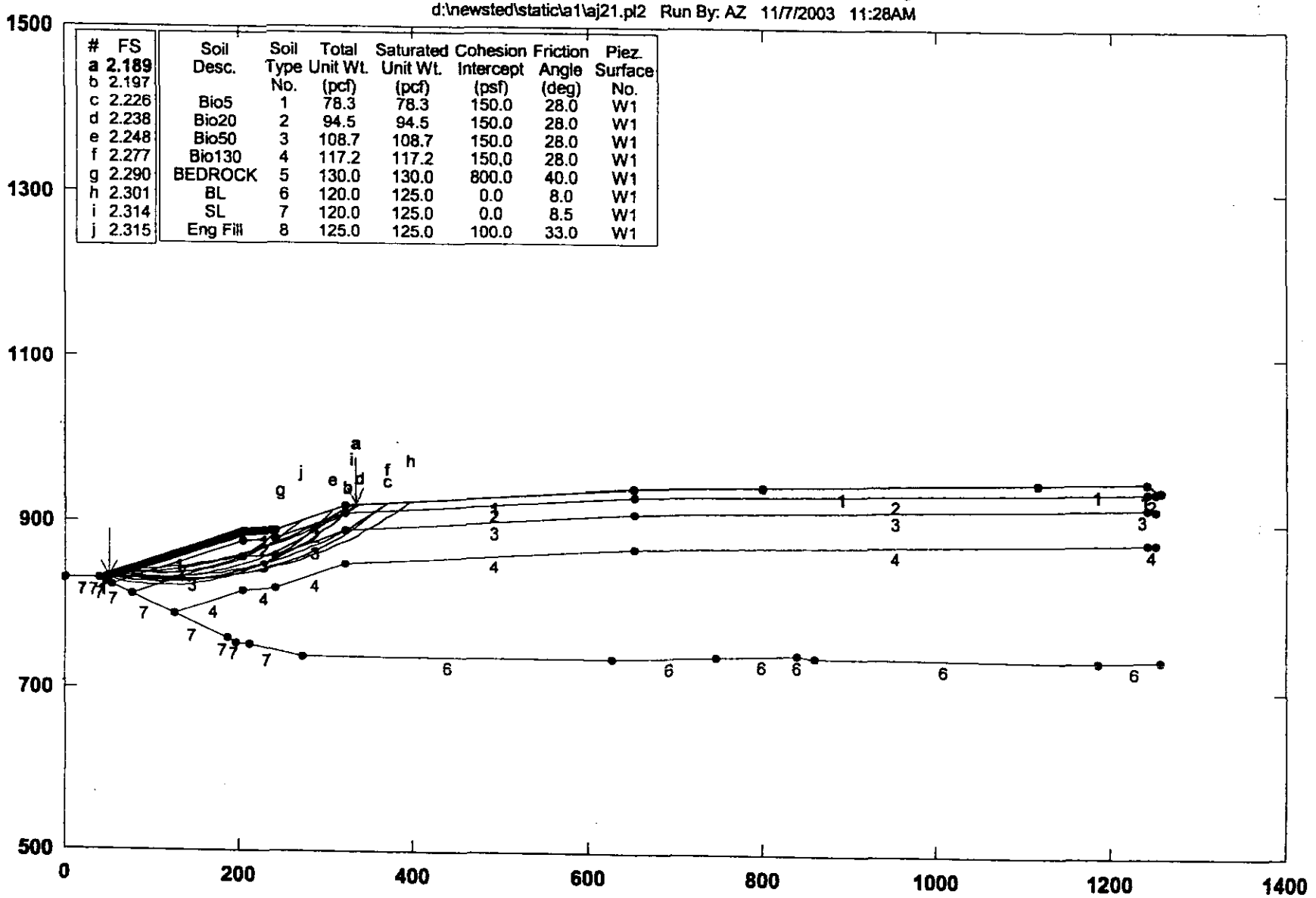
GSTABL7

KHF A-A' Static Bishop Slope Stability

d:\newsted\static\a1\aj21.pl2 Run By: AZ 11/7/2003 11:28AM

#	FS
a	2.189
b	2.197
c	2.226
d	2.238
e	2.248
f	2.277
g	2.290
h	2.301
i	2.314
j	2.315

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=2.189

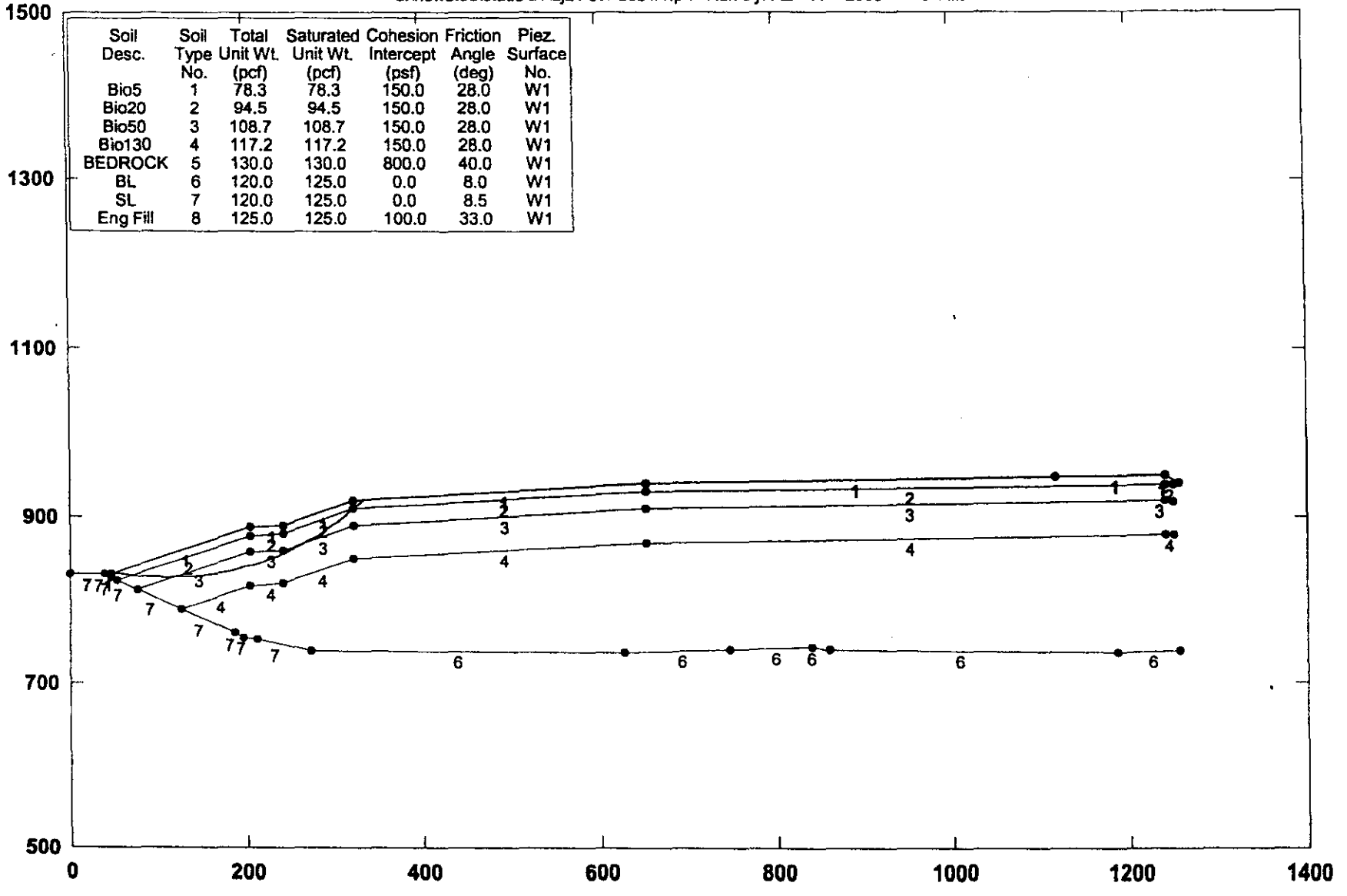
Safety Factors Are Calculated By GLE (Spencer's) Method (0-2)

GSTABL7

KHF A-A' Failure Plane II Spencer Static Slope Stability

d:\newsted\static\a1\aj21 surface #1.plt Run By: AZ 11/7/2003 11:34AM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1



GSTABL7 v.2 FSmin=2.189

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

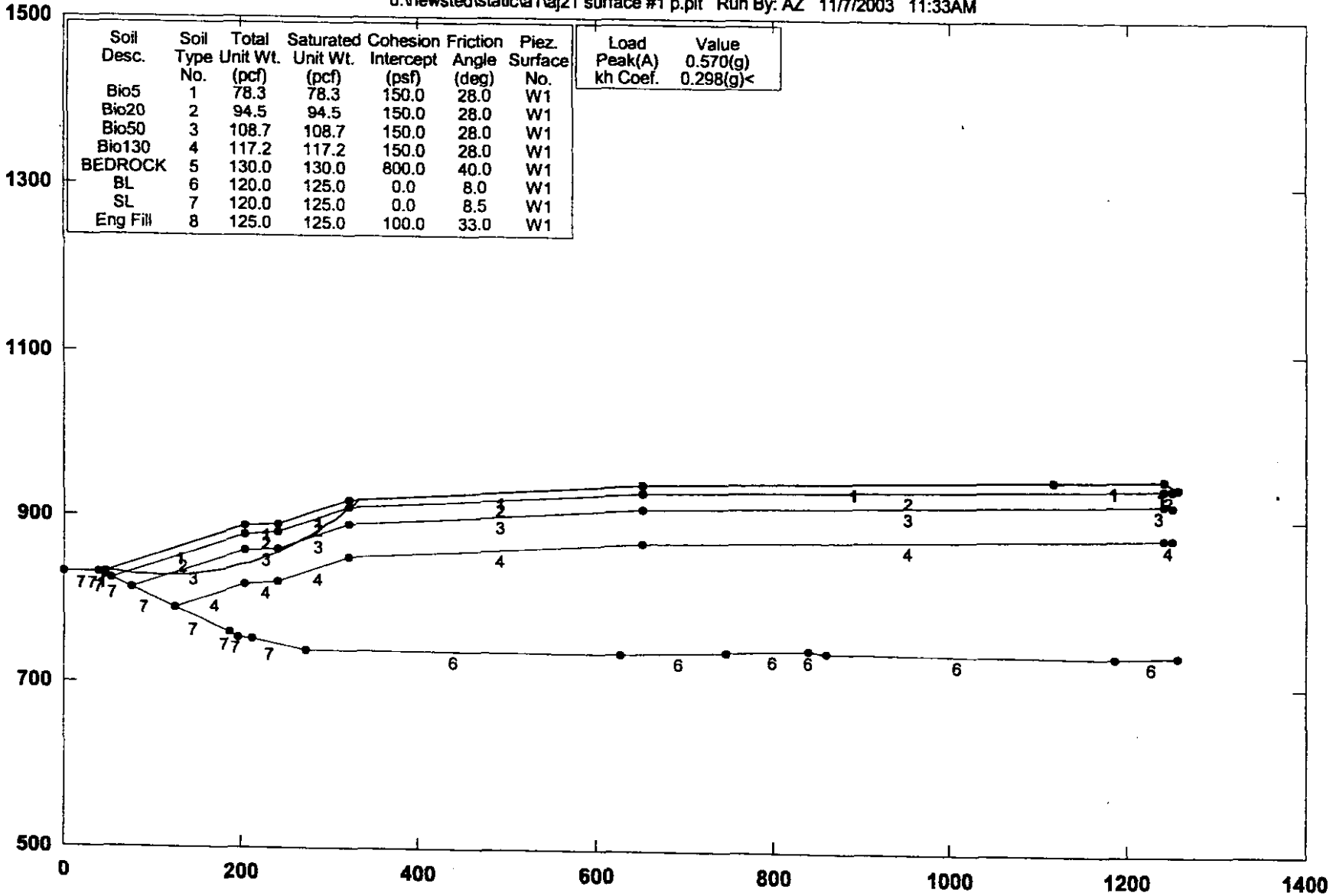
GSTABL7

KHF A-A' Failure Plane II Spencer Pseudo-Static Slope Stability

d:\newsted\static\a1\aj21 surface #1 p.plt Run By: AZ 11/7/2003 11:33AM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bio5	1	78.3	78.3	150.0	28.0	W1
Bio20	2	94.5	94.5	150.0	28.0	W1
Bio50	3	108.7	108.7	150.0	28.0	W1
Bio130	4	117.2	117.2	150.0	28.0	W1
BEDROCK	5	130.0	130.0	800.0	40.0	W1
BL	6	120.0	125.0	0.0	8.0	W1
SL	7	120.0	125.0	0.0	8.5	W1
Eng Fill	8	125.0	125.0	100.0	33.0	W1

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.298(g)<



GSTABL7 v.2 FSmin=0.999

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

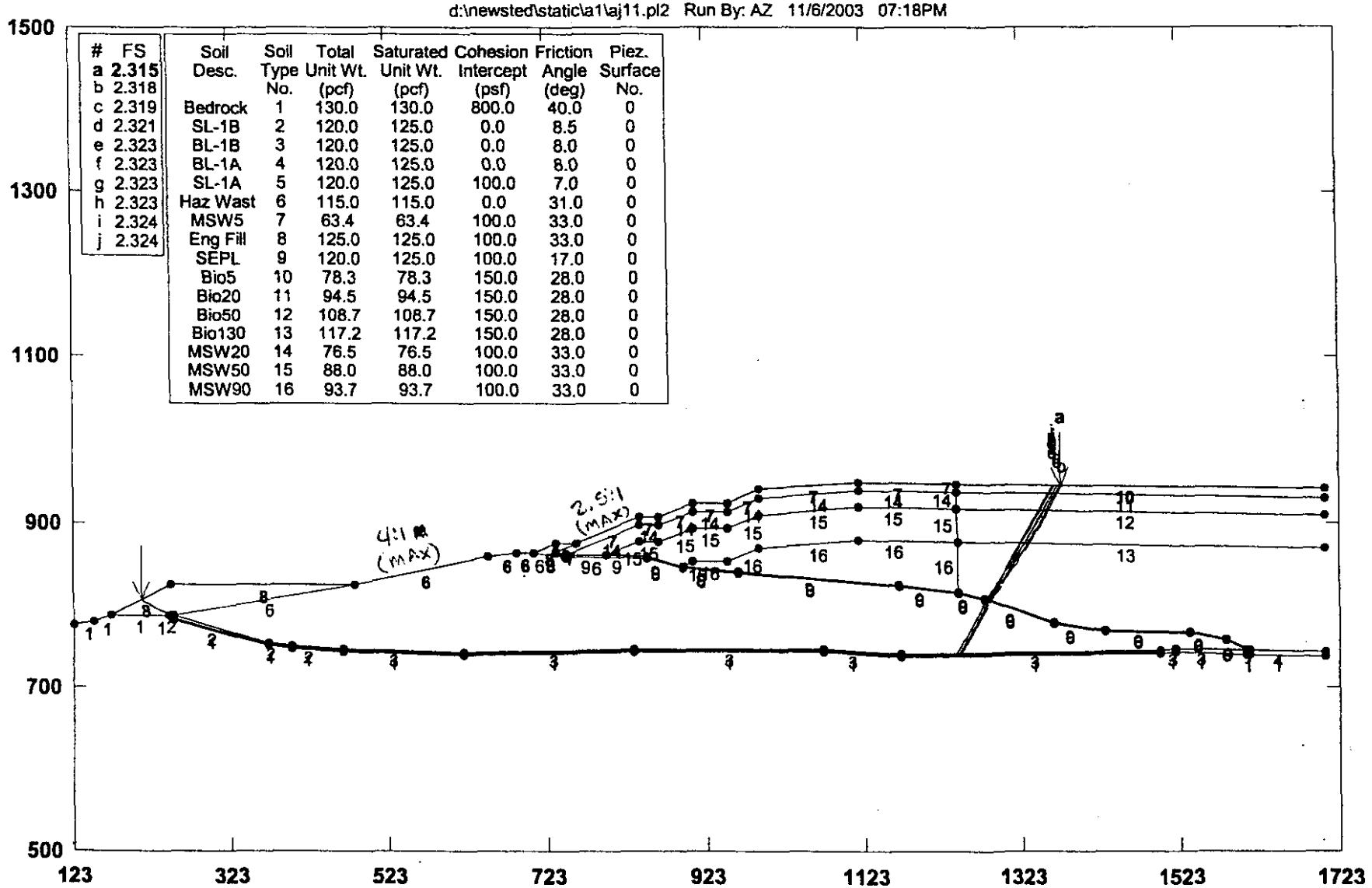
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj11.pl2 Run By: AZ 11/6/2003 07:18PM

#	FS
a	2.315
b	2.318
c	2.319
d	2.321
e	2.323
f	2.323
g	2.323
h	2.323
i	2.324
j	2.324

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.315

Safety Factors Are Calculated By The Simplified Janbu Method

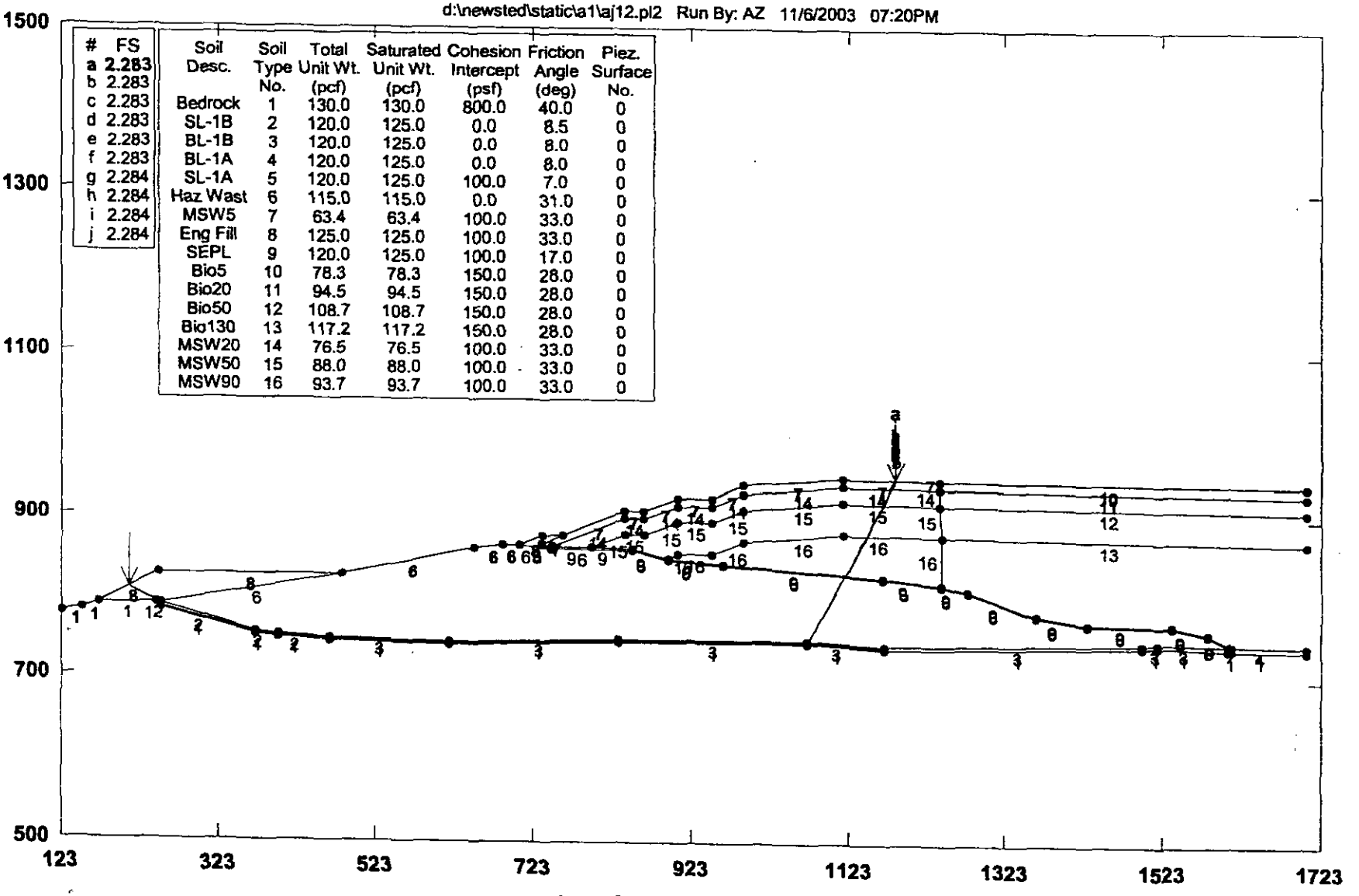
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj12.pl2 Run By: AZ 11/6/2003 07:20PM

#	FS
a	2.283
b	2.283
c	2.283
d	2.283
e	2.283
f	2.283
g	2.284
h	2.284
i	2.284
j	2.284

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.283

Safety Factors Are Calculated By The Simplified Janbu Method

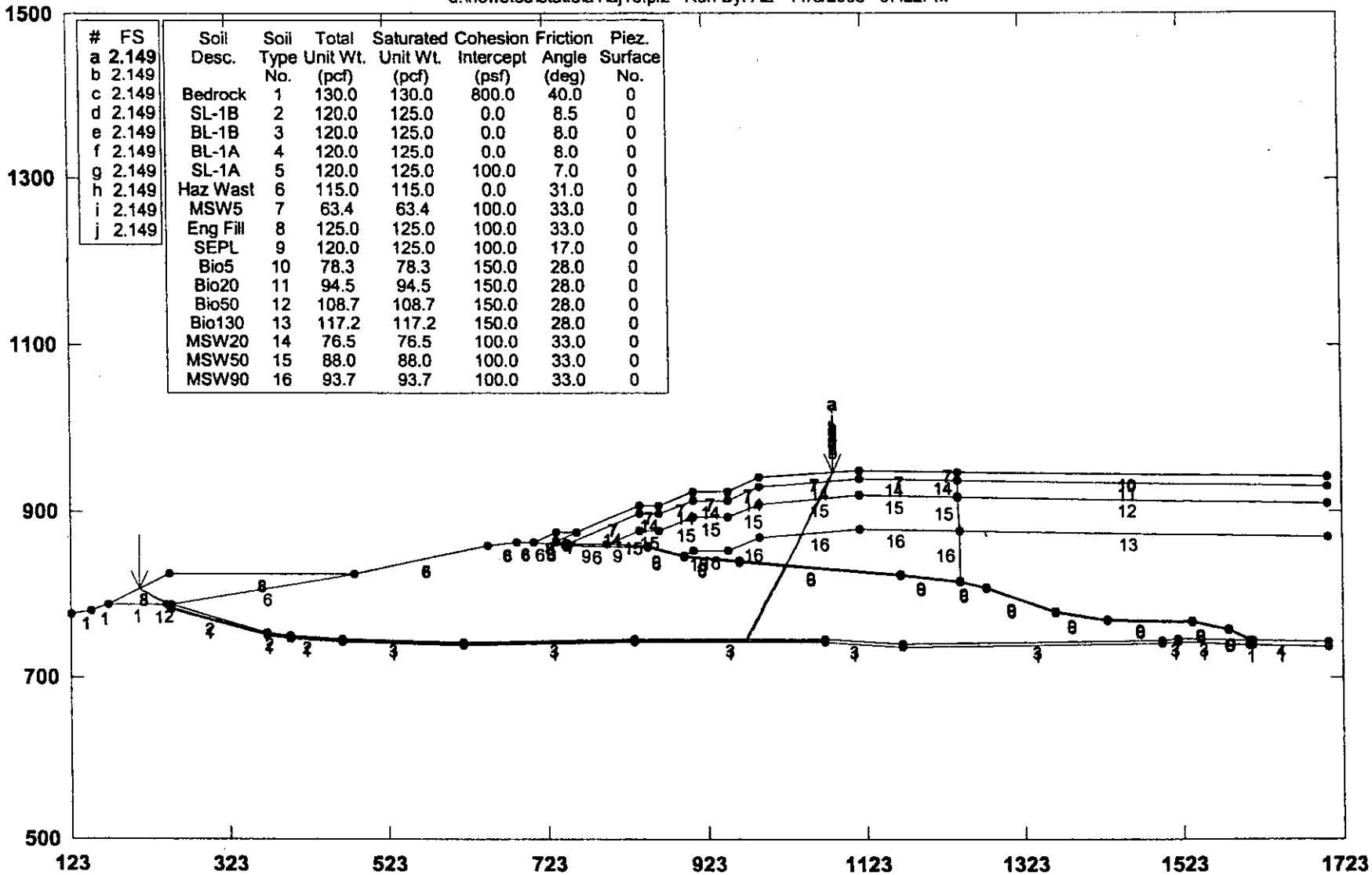
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj13.pl2 Run By: AZ 11/6/2003 07:22PM

#	FS
a	2.149
b	2.149
c	2.149
d	2.149
e	2.149
f	2.149
g	2.149
h	2.149
i	2.149
j	2.149

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.149

Safety Factors Are Calculated By The Simplified Janbu Method

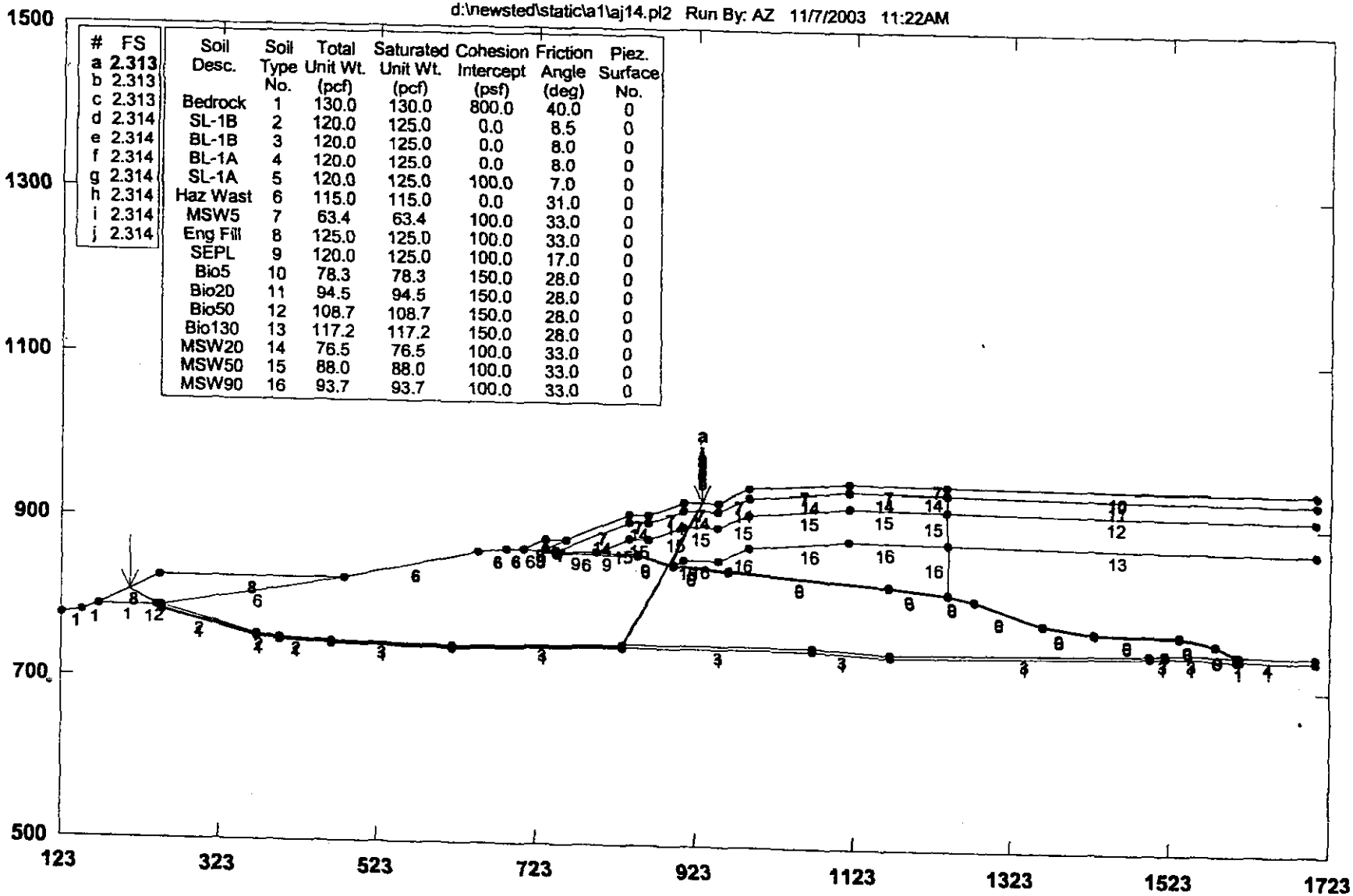
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj14.pl2 Run By: AZ 11/7/2003 11:22AM

#	FS
a	2.313
b	2.313
c	2.313
d	2.314
e	2.314
f	2.314
g	2.314
h	2.314
i	2.314
j	2.314

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.313

Safety Factors Are Calculated By The Simplified Janbu Method

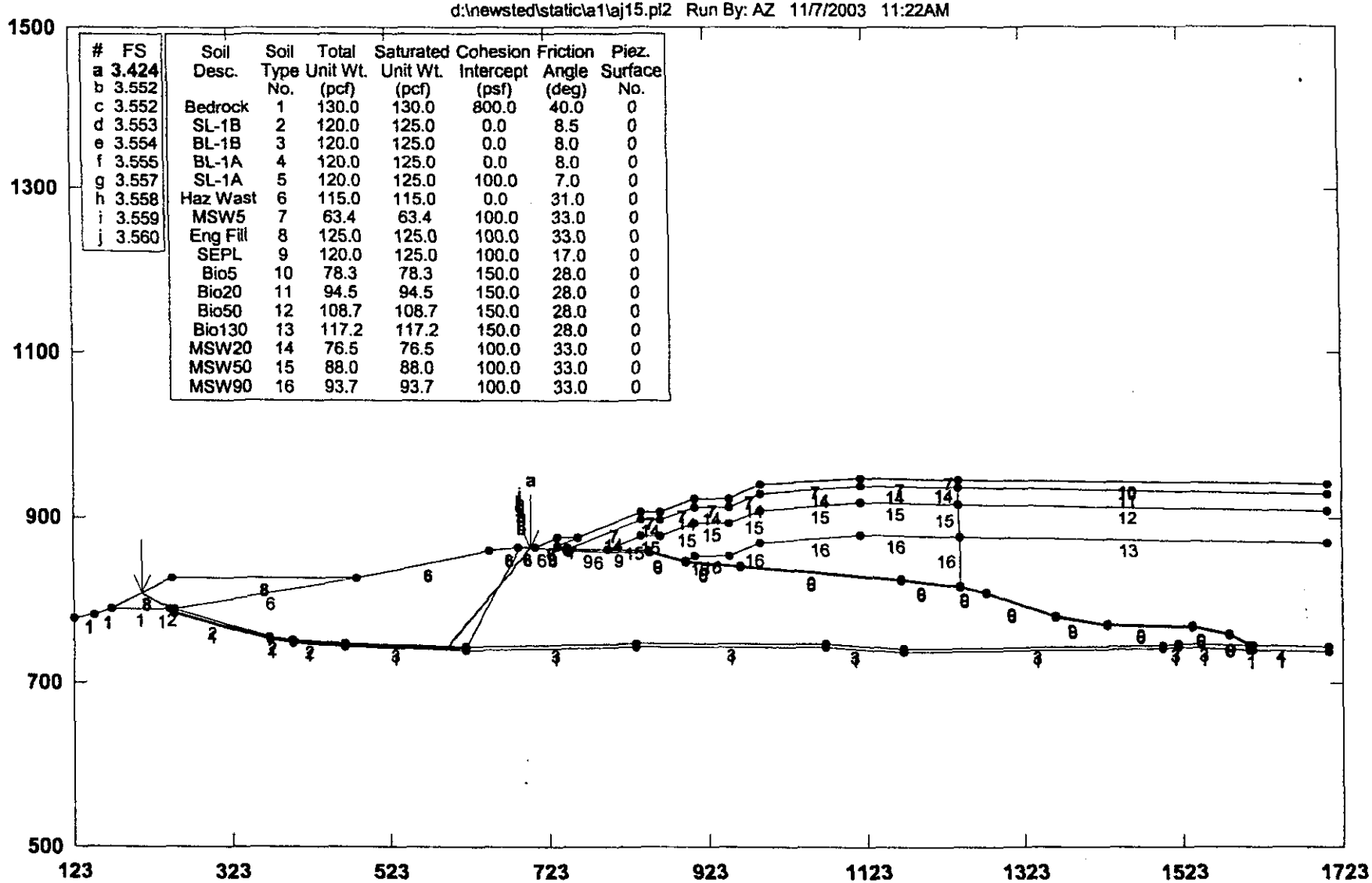
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a1\aj15.pl2 Run By: AZ 11/7/2003 11:22AM

#	FS
a	3.424
b	3.552
c	3.552
d	3.553
e	3.554
f	3.555
g	3.557
h	3.558
i	3.559
j	3.560

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=3.424

Safety Factors Are Calculated By The Simplified Janbu Method

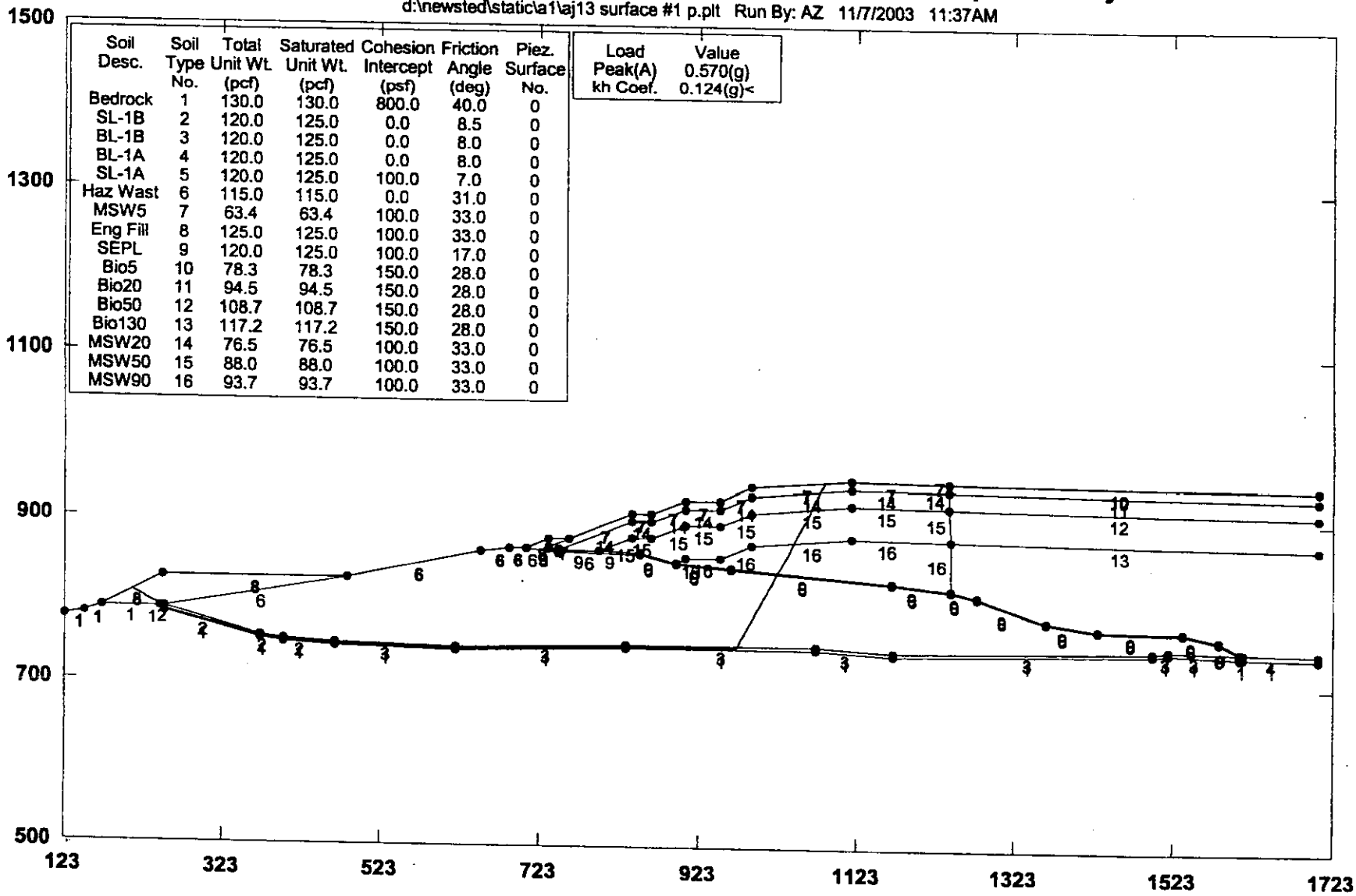
GSTABL7

KHF A-A' Failure Plane III Spencer Pseudo-Static Slope Stability

d:\newsted\static\a1\aj13 surface #1 p.plt Run By: AZ 11/7/2003 11:37AM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.124(g)<



GSTABL7 v.2 FSmin=0.997

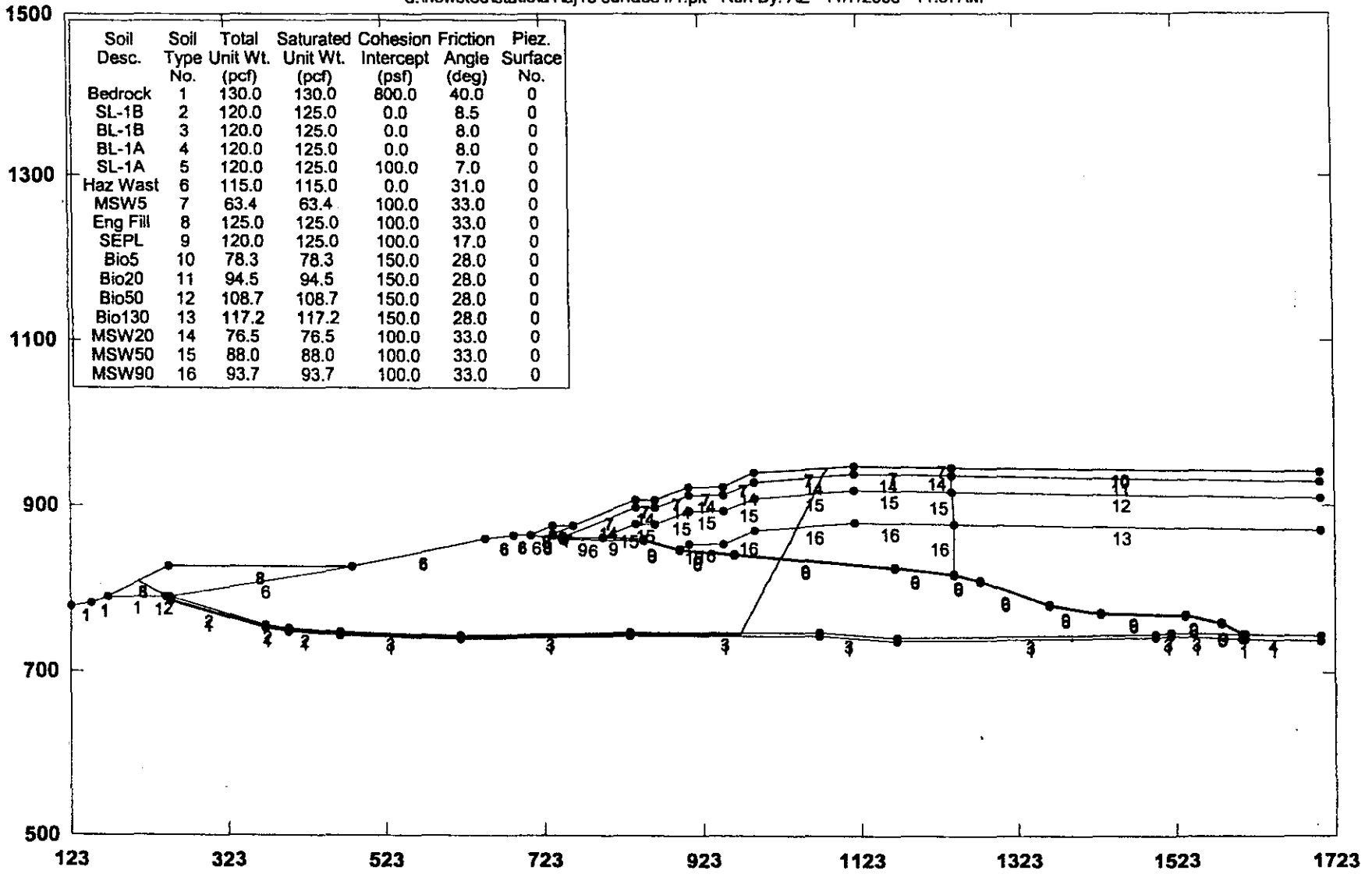
Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

KHF A-A' Failure Plane III Spencer Static Slope Stability

d:\newsted\static\a1\aj13 surface #1.plt Run By: AZ 11/7/2003 11:37AM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.328

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

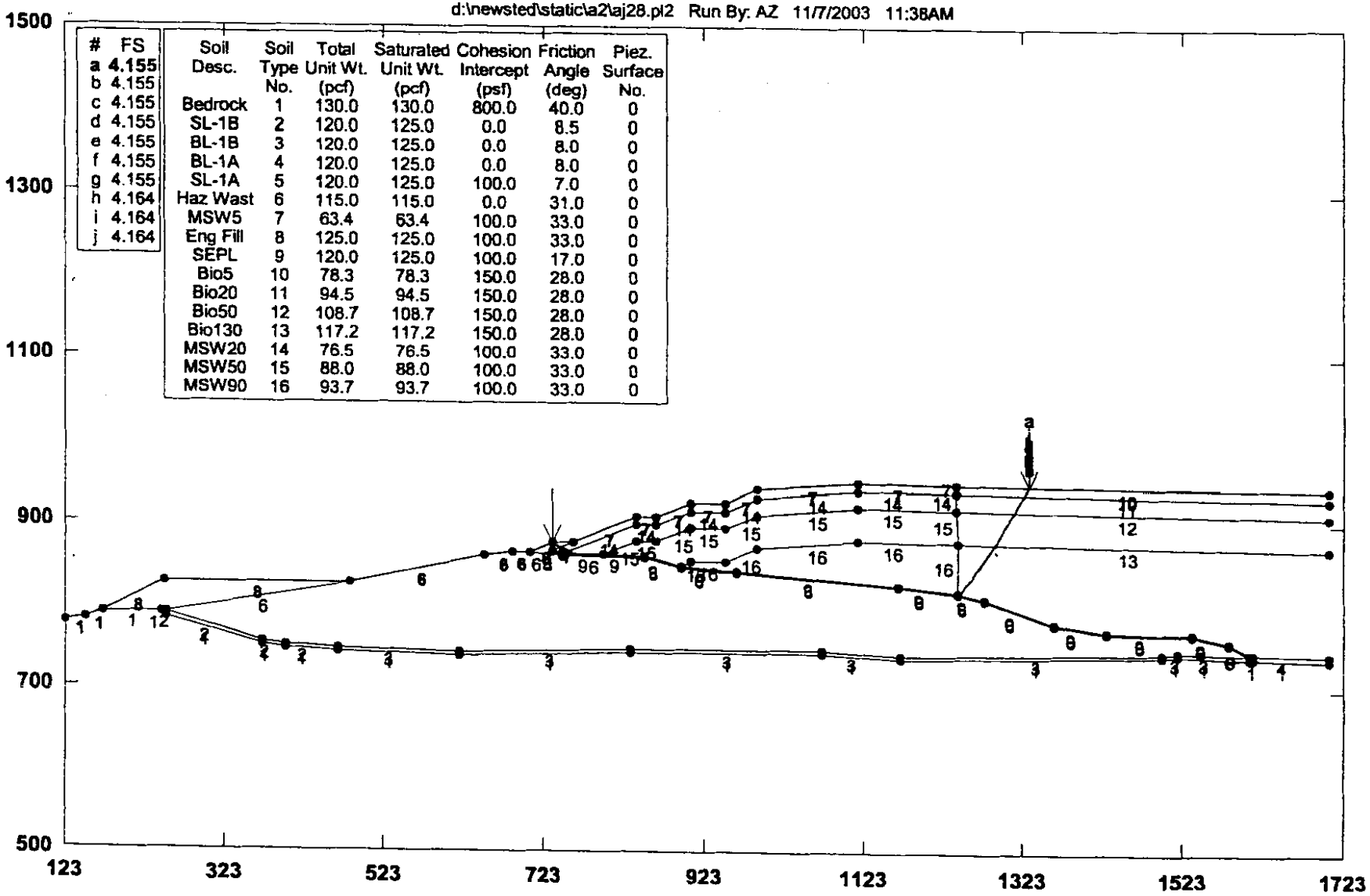
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a2\aj28.pl2 Run By: AZ 11/7/2003 11:38AM

#	FS
a	4.155
b	4.155
c	4.155
d	4.155
e	4.155
f	4.155
g	4.155
h	4.164
i	4.164
j	4.164

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=4.155

Safety Factors Are Calculated By The Simplified Janbu Method

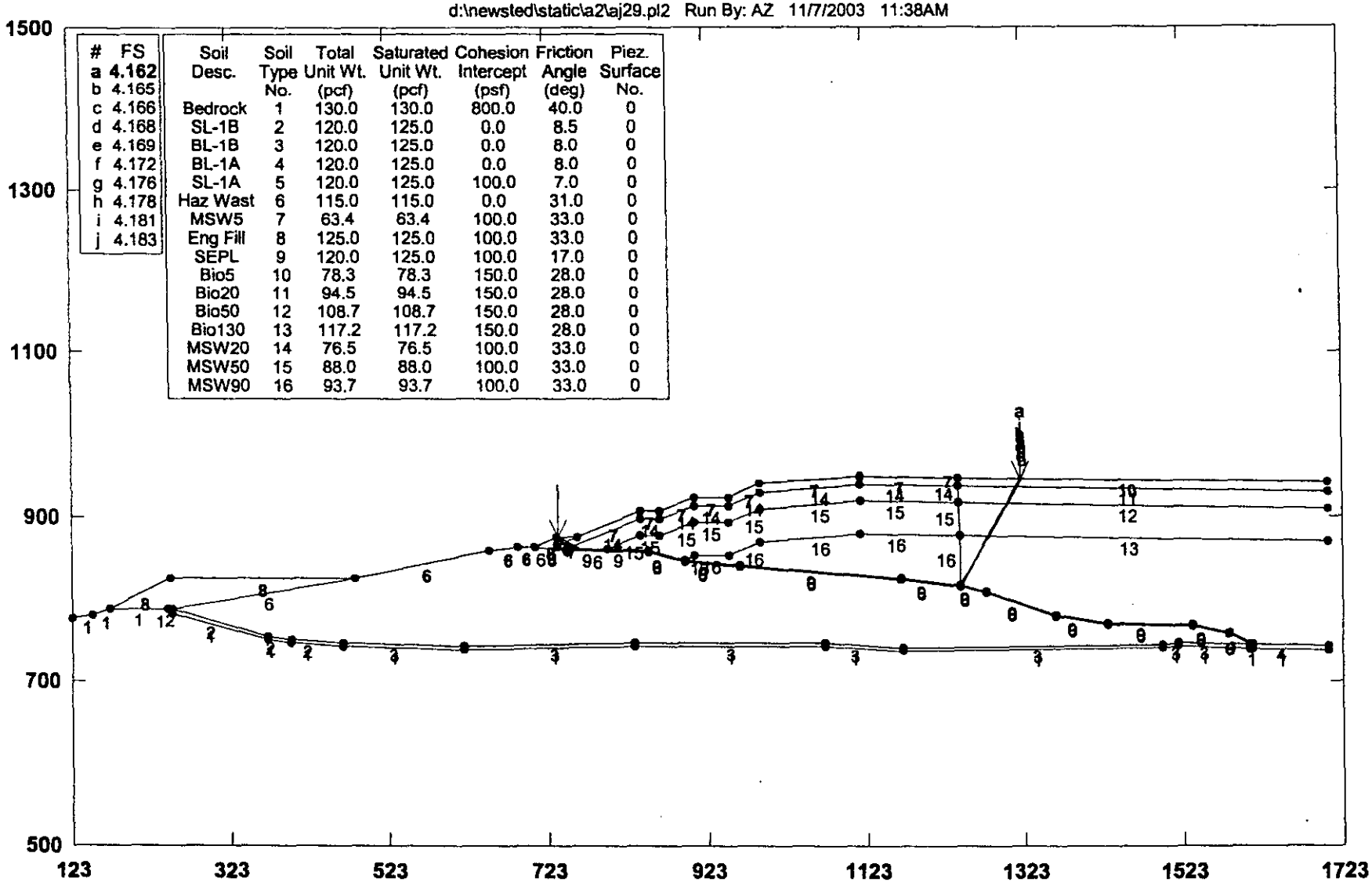
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a2\aj29.pl2 Run By: AZ 11/7/2003 11:38AM

#	FS
a	4.162
b	4.165
c	4.166
d	4.168
e	4.169
f	4.172
g	4.176
h	4.178
i	4.181
j	4.183

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=4.162

Safety Factors Are Calculated By The Simplified Janbu Method

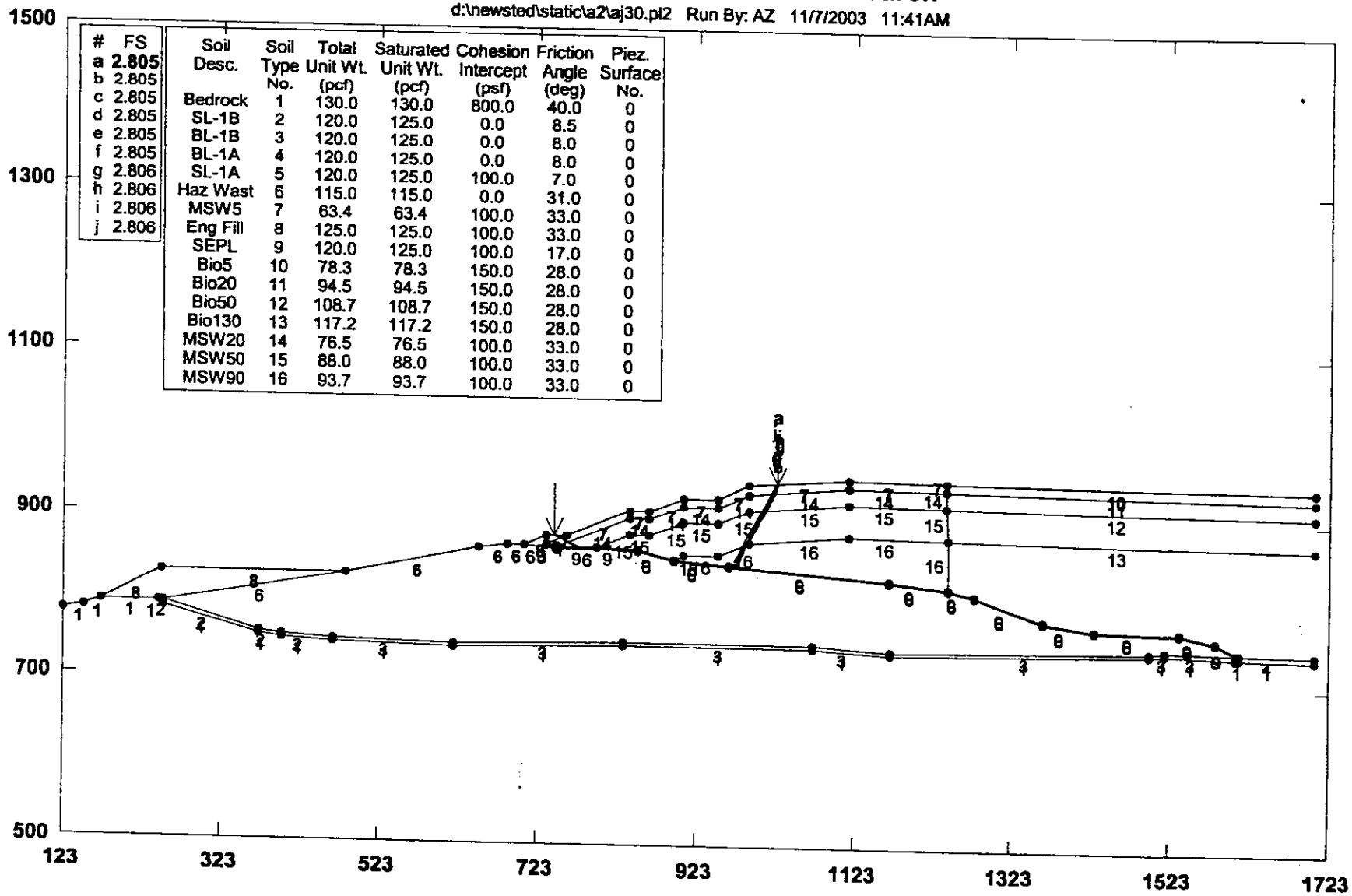
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a2\aj30.pl2 Run By: AZ 11/7/2003 11:41AM

#	FS
a	2.805
b	2.805
c	2.805
d	2.805
e	2.805
f	2.805
g	2.806
h	2.806
i	2.806
j	2.806

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.805

Safety Factors Are Calculated By The Simplified Janbu Method

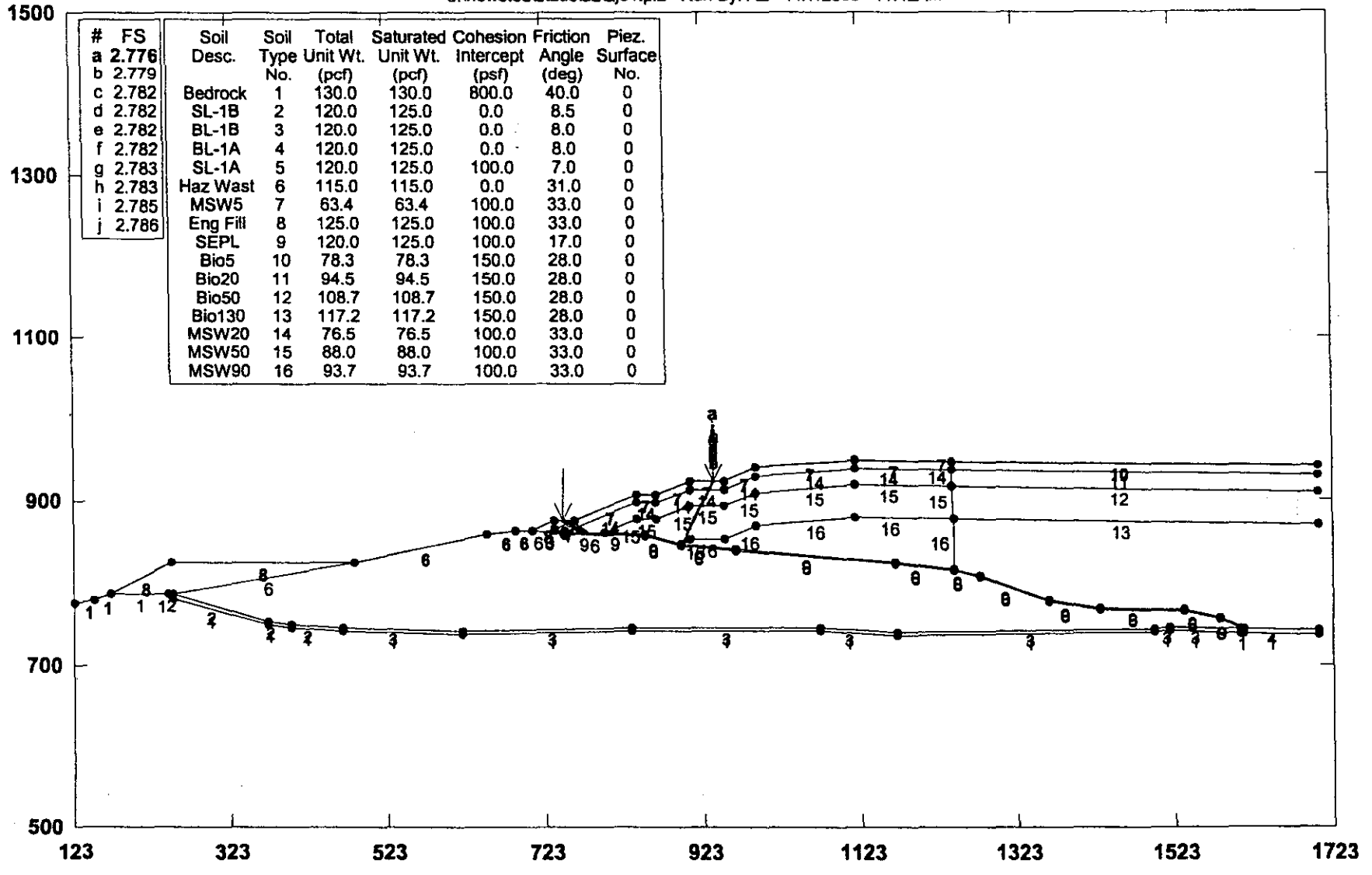
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a2\aj31.pl2 Run By: AZ 11/7/2003 11:42AM

#	FS
a	2.776
b	2.779
c	2.782
d	2.782
e	2.782
f	2.782
g	2.783
h	2.783
i	2.785
j	2.786

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.776

Safety Factors Are Calculated By The Simplified Janbu Method

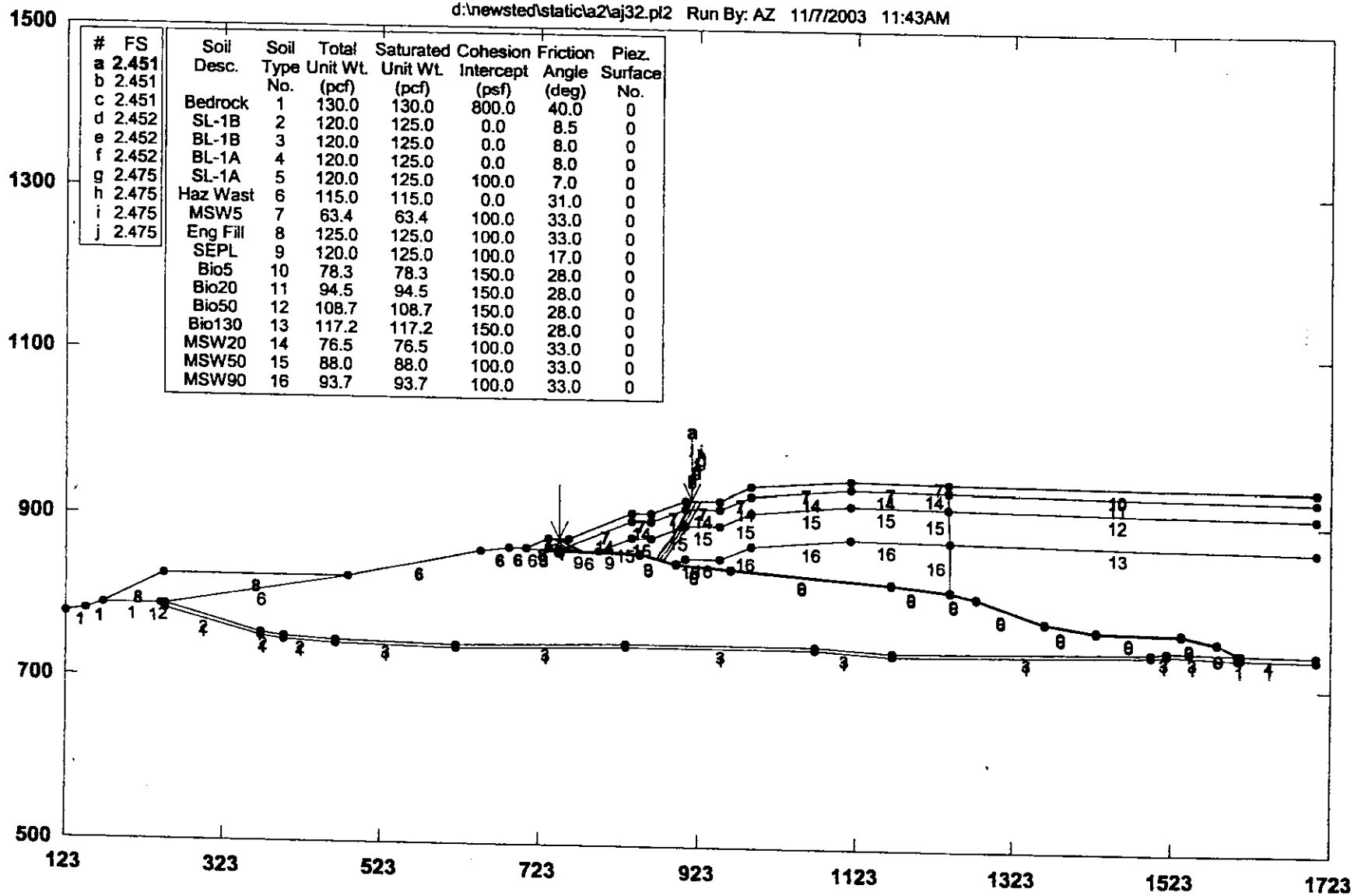
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a2\aj32.pl2 Run By: AZ 11/7/2003 11:43AM

#	FS
a	2.451
b	2.451
c	2.451
d	2.452
e	2.452
f	2.452
g	2.475
h	2.475
i	2.475
j	2.475

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.451

Safety Factors Are Calculated By The Simplified Janbu Method

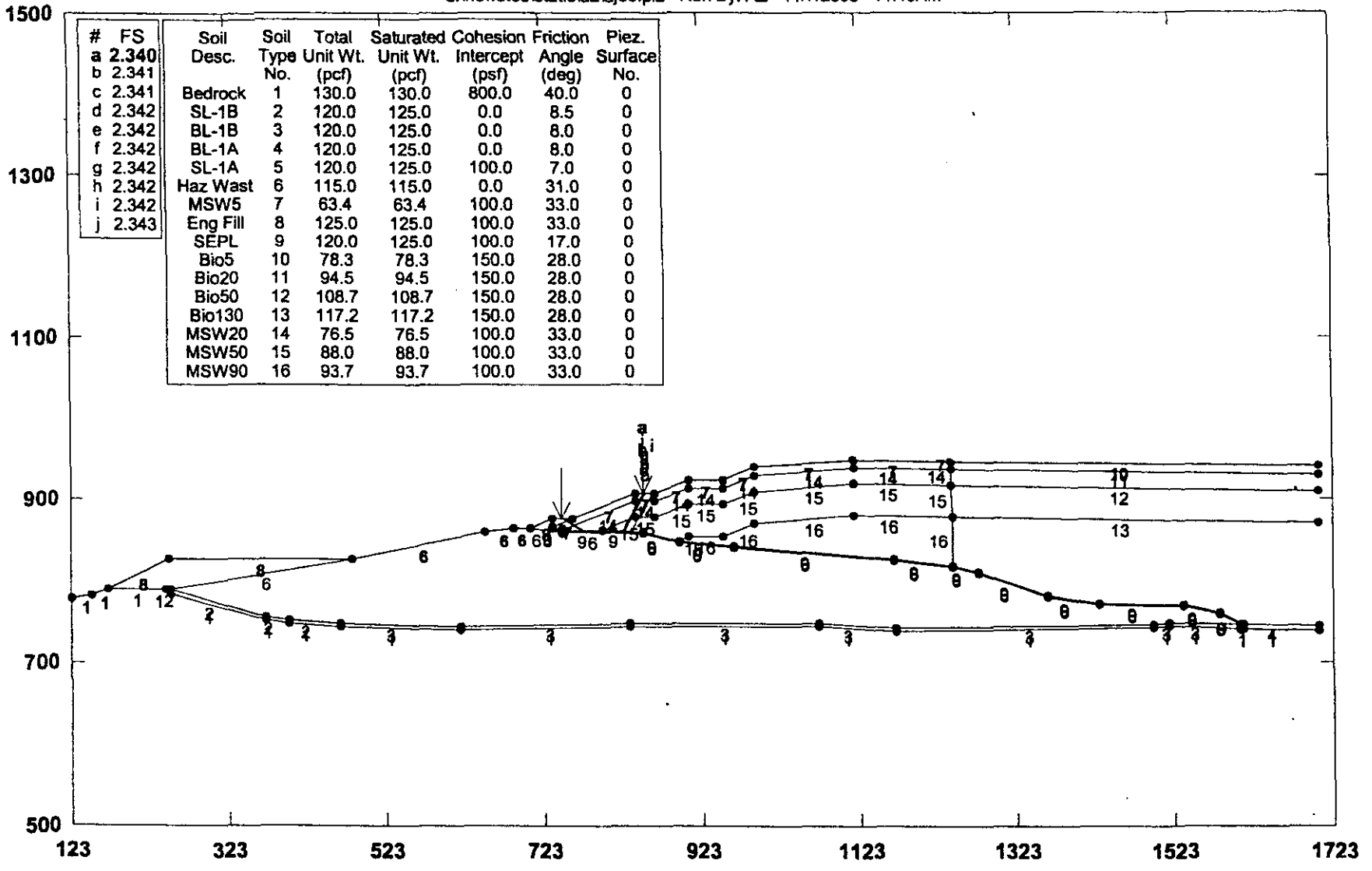
GSTABL7

KHF A-A' Static Janbu Block Search

d:\newsted\static\a2\aj33.pl2 Run By: AZ 11/7/2003 11:43AM

#	FS
a	2.340
b	2.341
c	2.341
d	2.342
e	2.342
f	2.342
g	2.342
h	2.342
i	2.342
j	2.343

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.340

Safety Factors Are Calculated By The Simplified Janbu Method

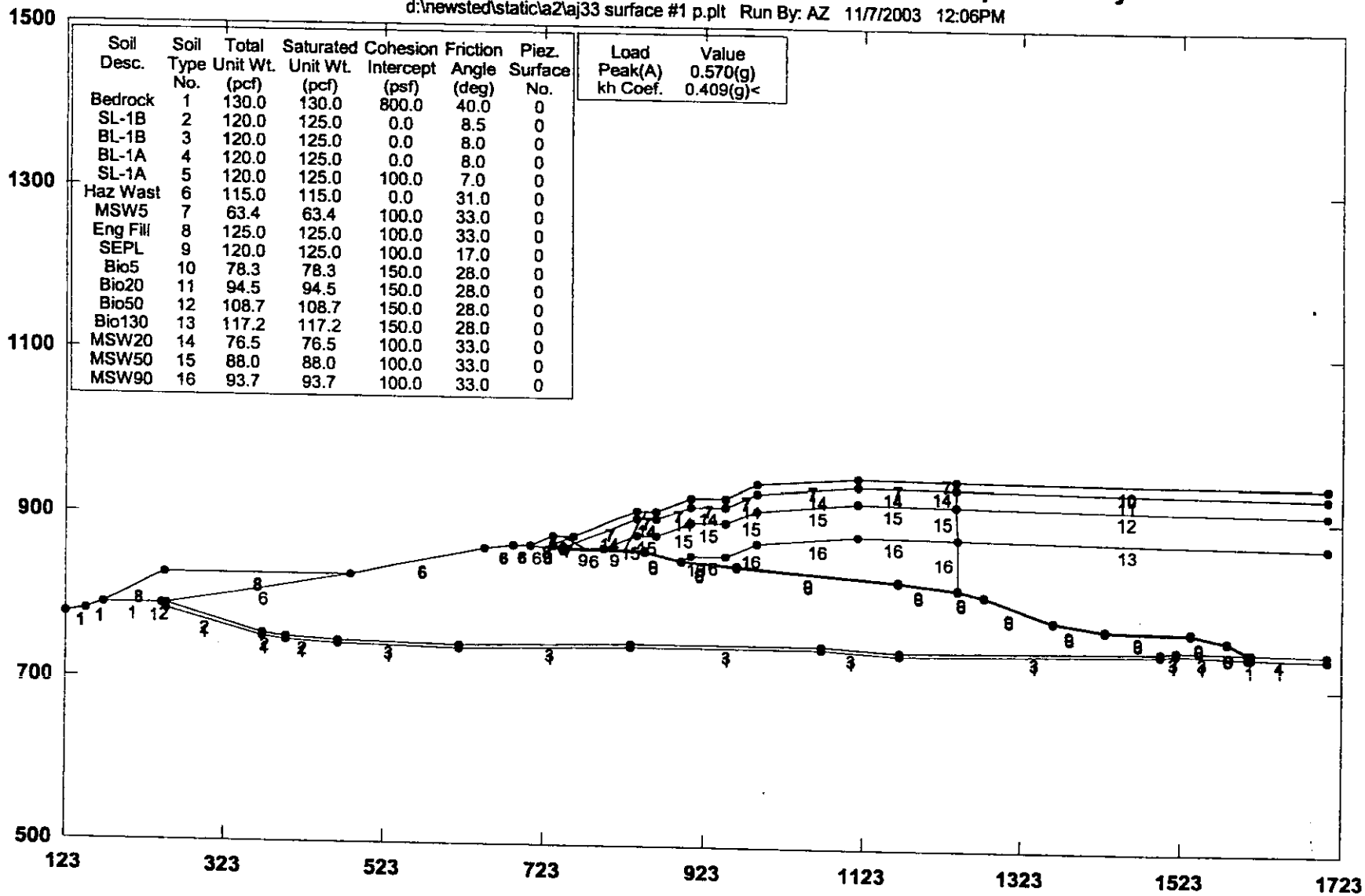
GSTABL7

KHF A-A' Failure Plane IV Spencer Pseudo-Static Slope Stability

d:\newsted\static\a2\aj33 surface #1 p.plt Run By: AZ 11/7/2003 12:06PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.409(g)<



GSTABL7 v.2 FSmin=1.001

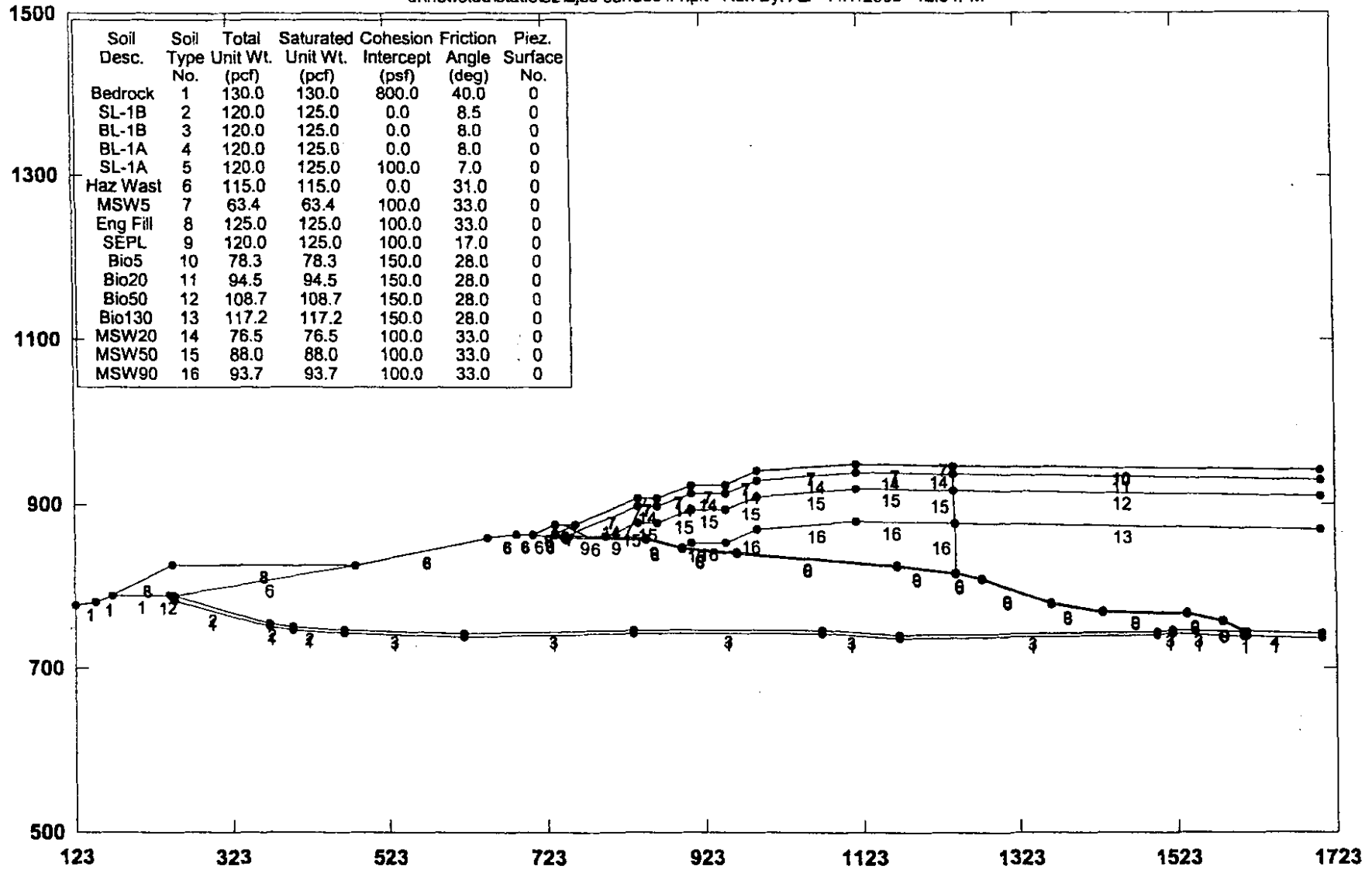
Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

KHF A-A' Failure Plane IV Spencer Static Slope Stability

d:\newsted\static\a2\aj33 surface #1.plt Run By: AZ 11/7/2003 12:04PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio5	10	78.3	78.3	150.0	28.0	0
Bio20	11	94.5	94.5	150.0	28.0	0
Bio50	12	108.7	108.7	150.0	28.0	0
Bio130	13	117.2	117.2	150.0	28.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=3.210

Factor Of Safety Is Calculated By GLE (Spencer's) Method (0-2)

GSTABL7

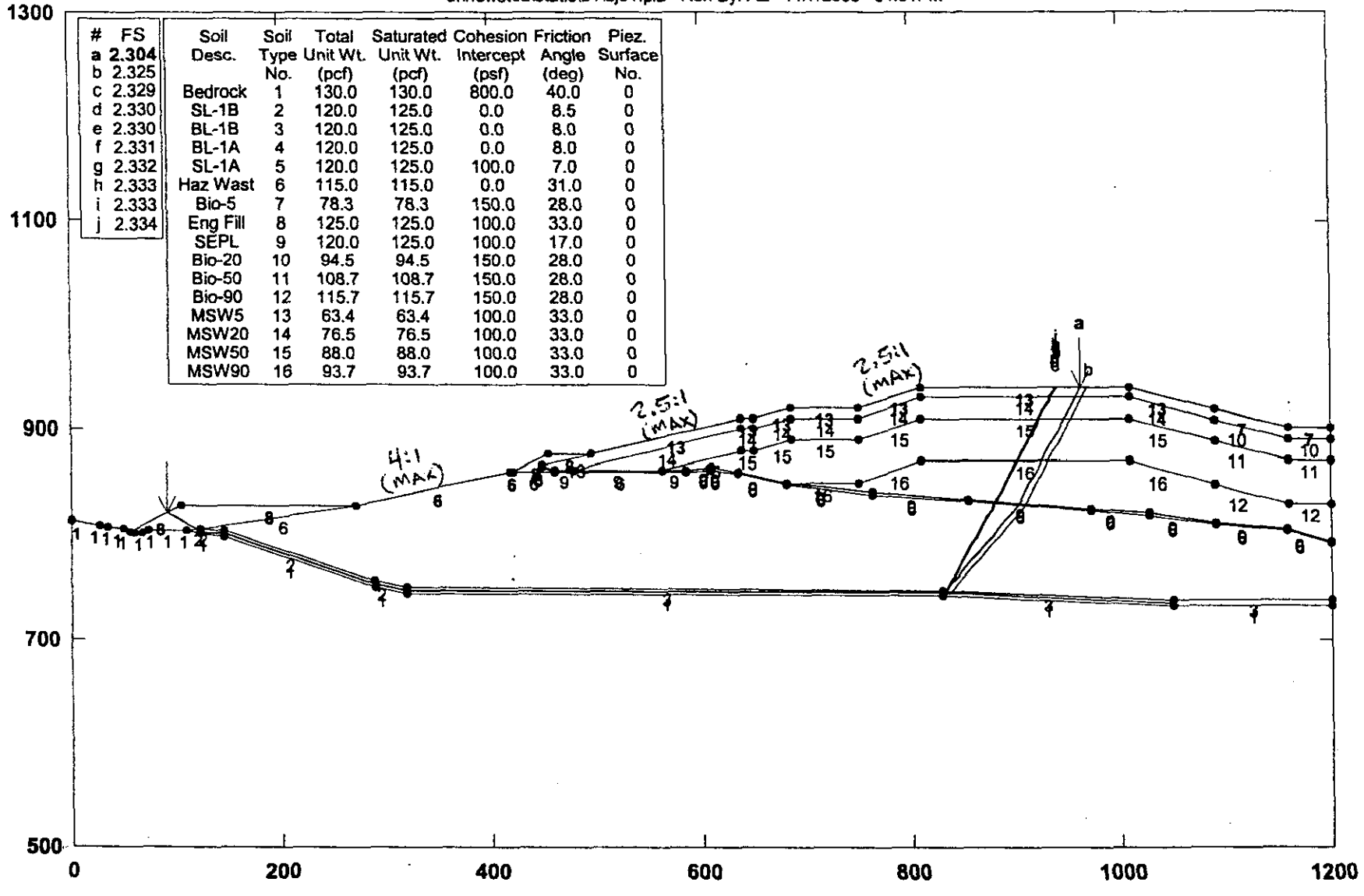
CROSS SECTION B-B'

KHF B-B' Static Janbu Block Search

d:\newsted\static\b1\bj01.pl2 Run By: AZ 11/7/2003 04:51PM

#	FS
a	2.304
b	2.325
c	2.329
d	2.330
e	2.330
f	2.331
g	2.332
h	2.333
i	2.333
j	2.334

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.304

Safety Factors Are Calculated By The Simplified Janbu Method

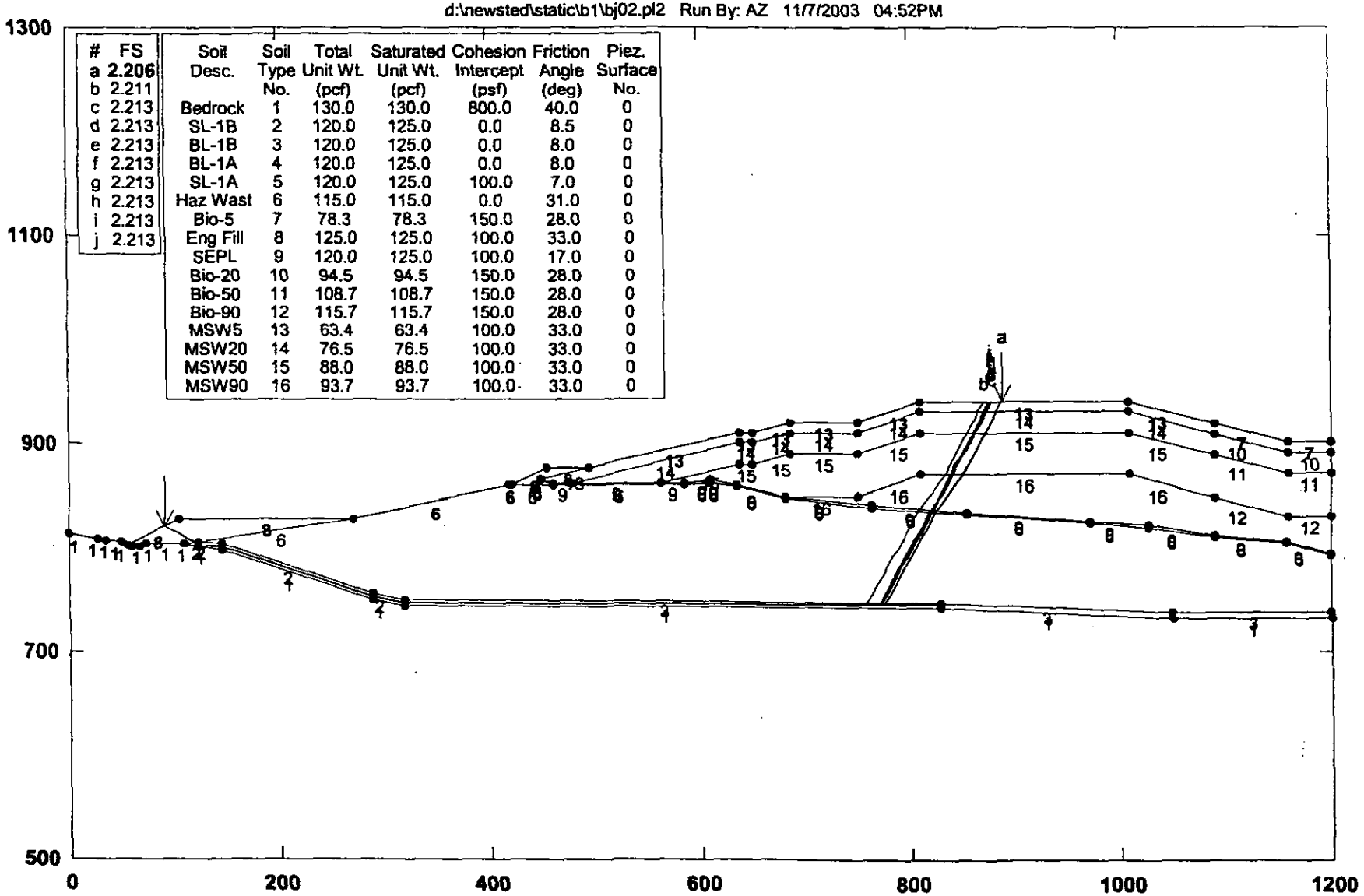
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b1\bj02.pl2 Run By: AZ 11/7/2003 04:52PM

#	FS
a	2.206
b	2.211
c	2.213
d	2.213
e	2.213
f	2.213
g	2.213
h	2.213
i	2.213
j	2.213

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.206

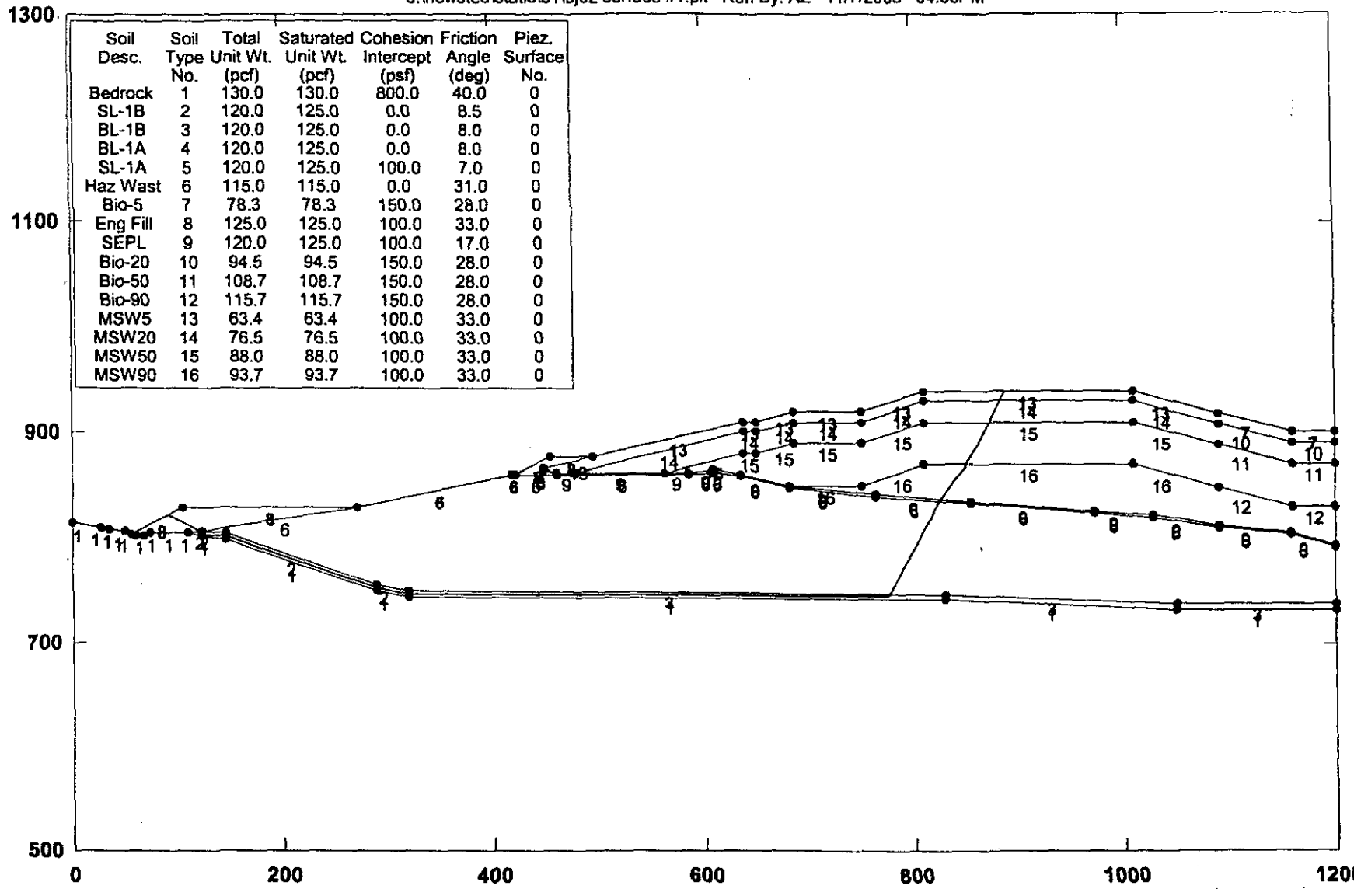
Safety Factors Are Calculated By The Simplified Janbu Method

GSTABL7

KHF B-B' Failure Plane I Spencer Static Slope Stability

d:\newsted\static\b1\bj02 surface #1.plt Run By: AZ 11/7/2003 04:55PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.436

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

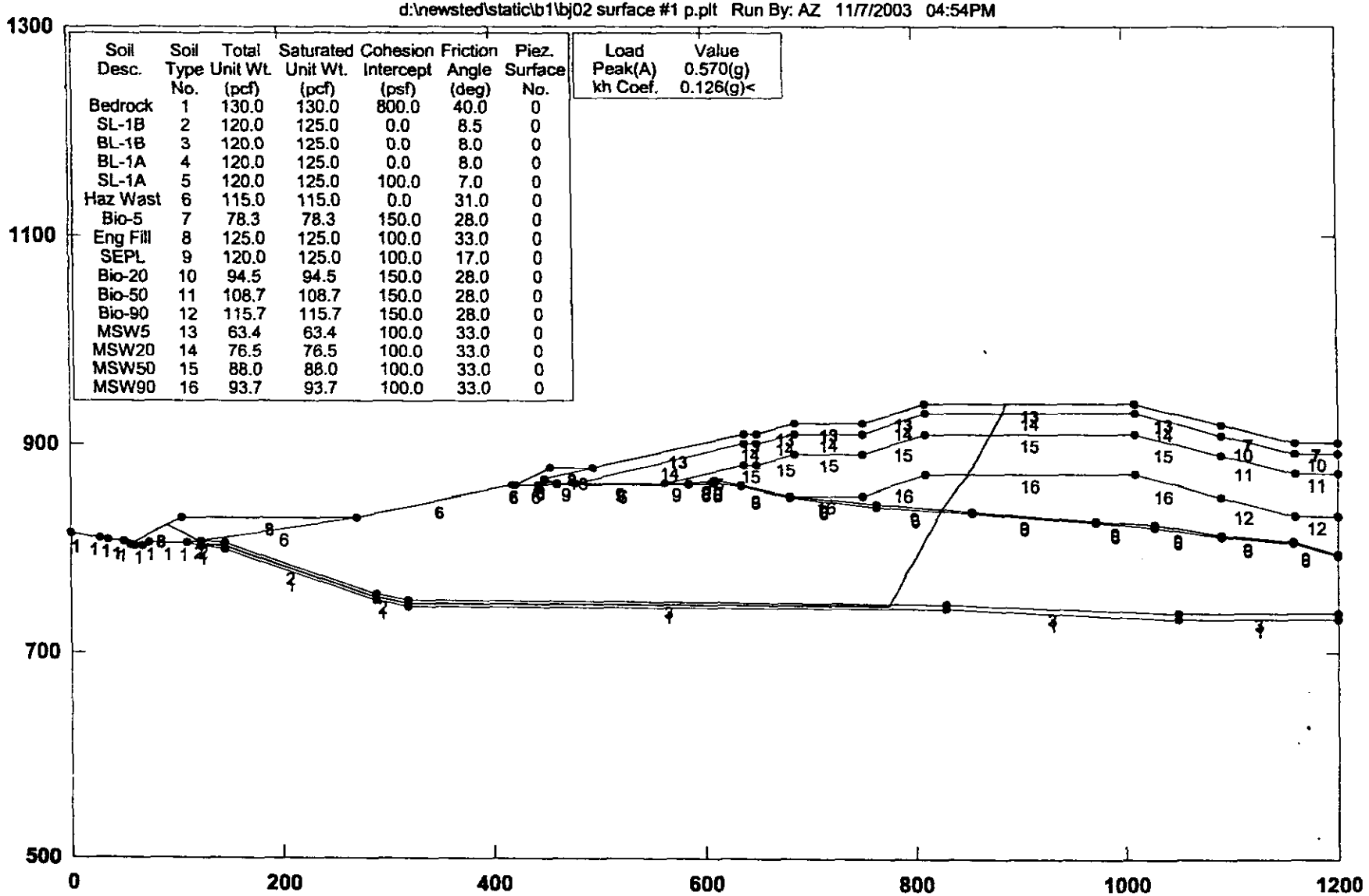
GSTABL7

KHF B-B' Failure Plane I Spencer Pseudo-Static Slope Stability

d:\newsted\static\b1\bj02 surface #1 p.plt Run By: AZ 11/7/2003 04:54PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.126(g)<



GSTABL7 v.2 FSmin=1.001

Factor Of Safety Is Calculated By GLE (Spencer's) Method (0-2)

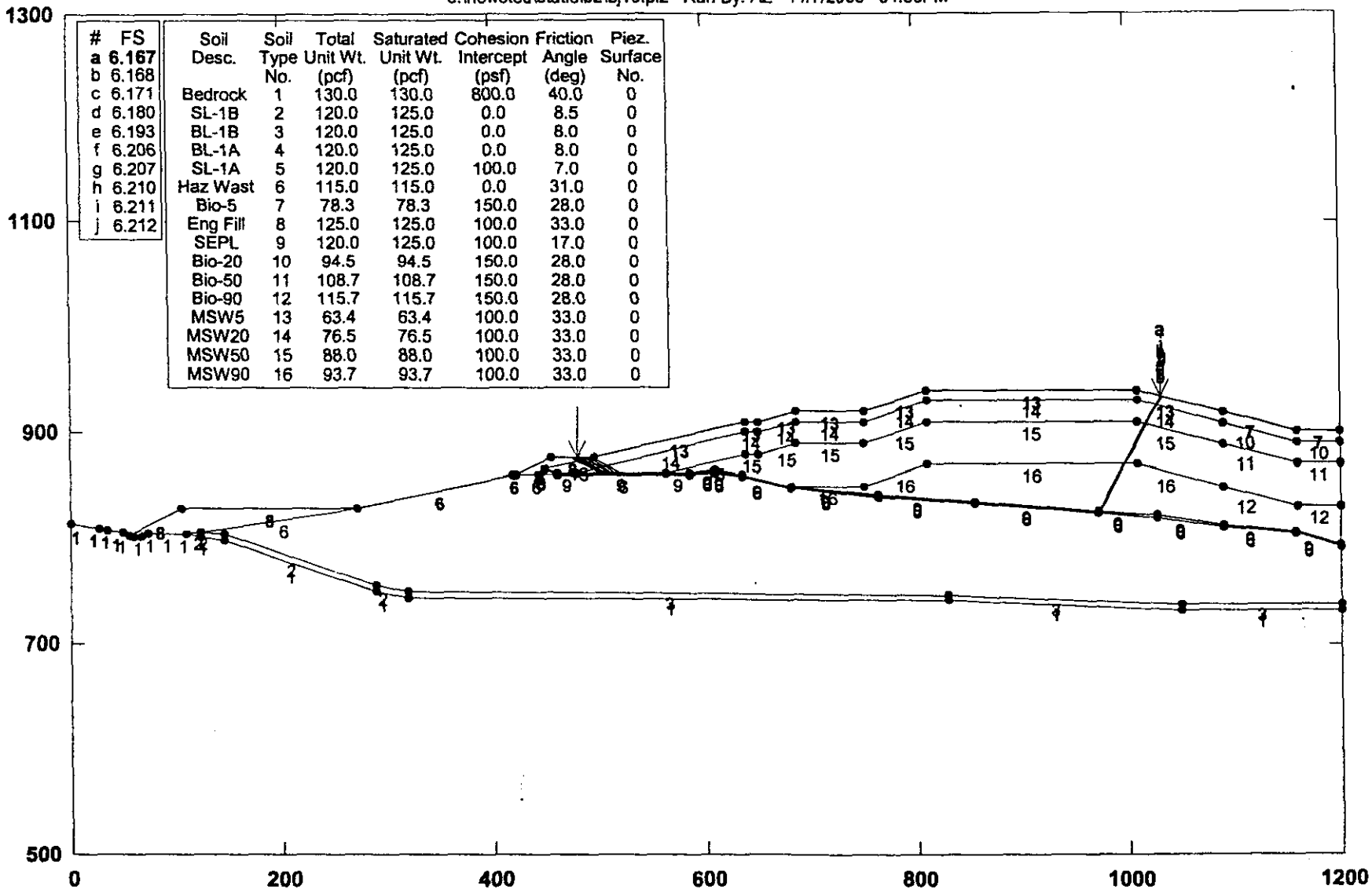
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj10.pl2 Run By: AZ 11/7/2003 04:56PM

#	FS
a	6.167
b	6.168
c	6.171
d	6.180
e	6.193
f	6.206
g	6.207
h	6.210
i	6.211
j	6.212

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=6.167

Safety Factors Are Calculated By The Simplified Janbu Method

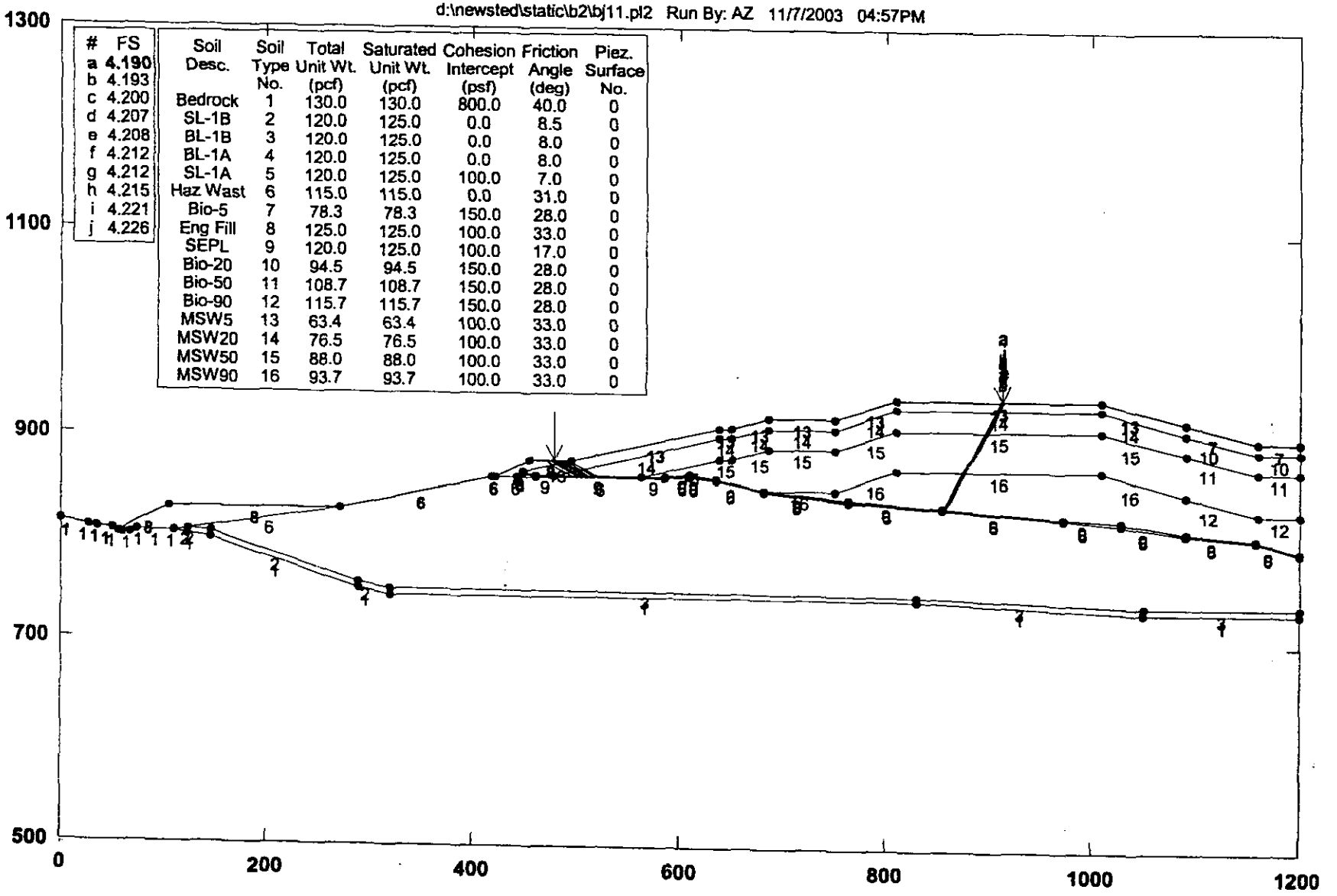
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj11.pl2 Run By: AZ 11/7/2003 04:57PM

#	FS
a	4.190
b	4.193
c	4.200
d	4.207
e	4.208
f	4.212
g	4.212
h	4.215
i	4.221
j	4.226

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=4.190

Safety Factors Are Calculated By The Simplified Janbu Method

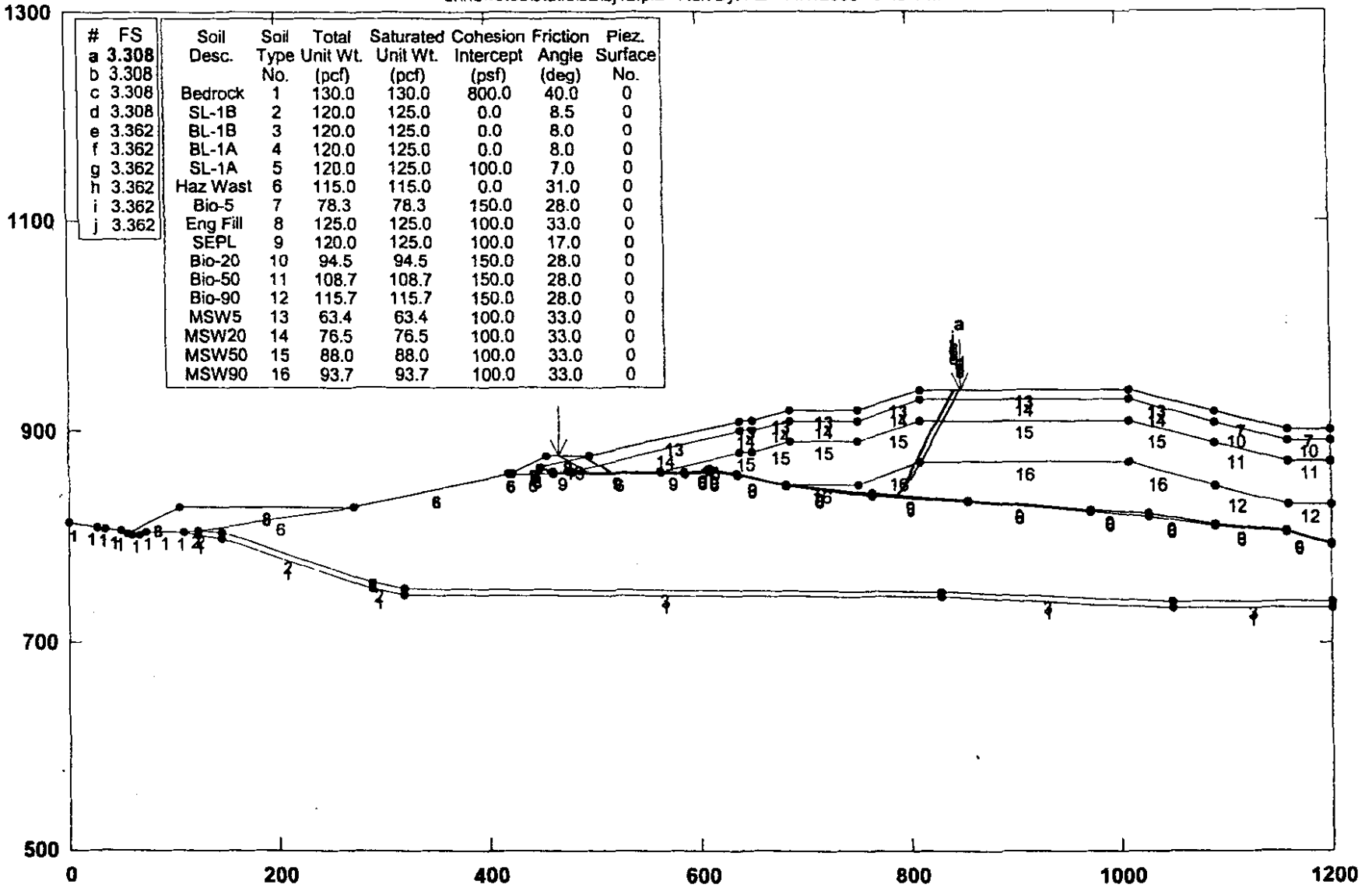
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj12.pl2 Run By: AZ 11/7/2003 04:57PM

#	FS
a	3.308
b	3.308
c	3.308
d	3.308
e	3.362
f	3.362
g	3.362
h	3.362
i	3.362
j	3.362

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=3.308

Safety Factors Are Calculated By The Simplified Janbu Method

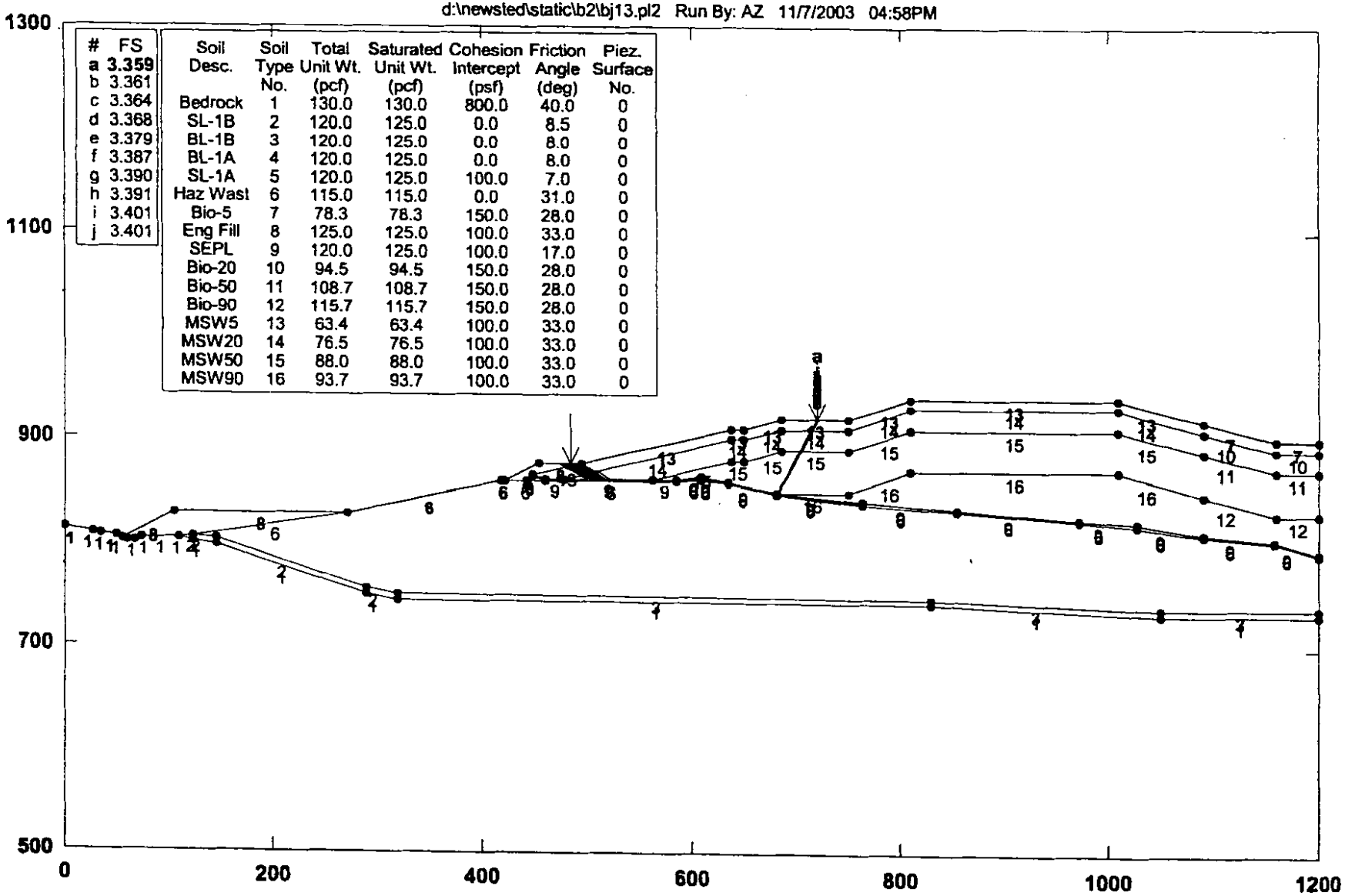
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj13.pl2 Run By: AZ 11/7/2003 04:58PM

#	FS
a	3.359
b	3.361
c	3.364
d	3.368
e	3.379
f	3.387
g	3.390
h	3.391
i	3.401
j	3.401

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=3.359

Safety Factors Are Calculated By The Simplified Janbu Method

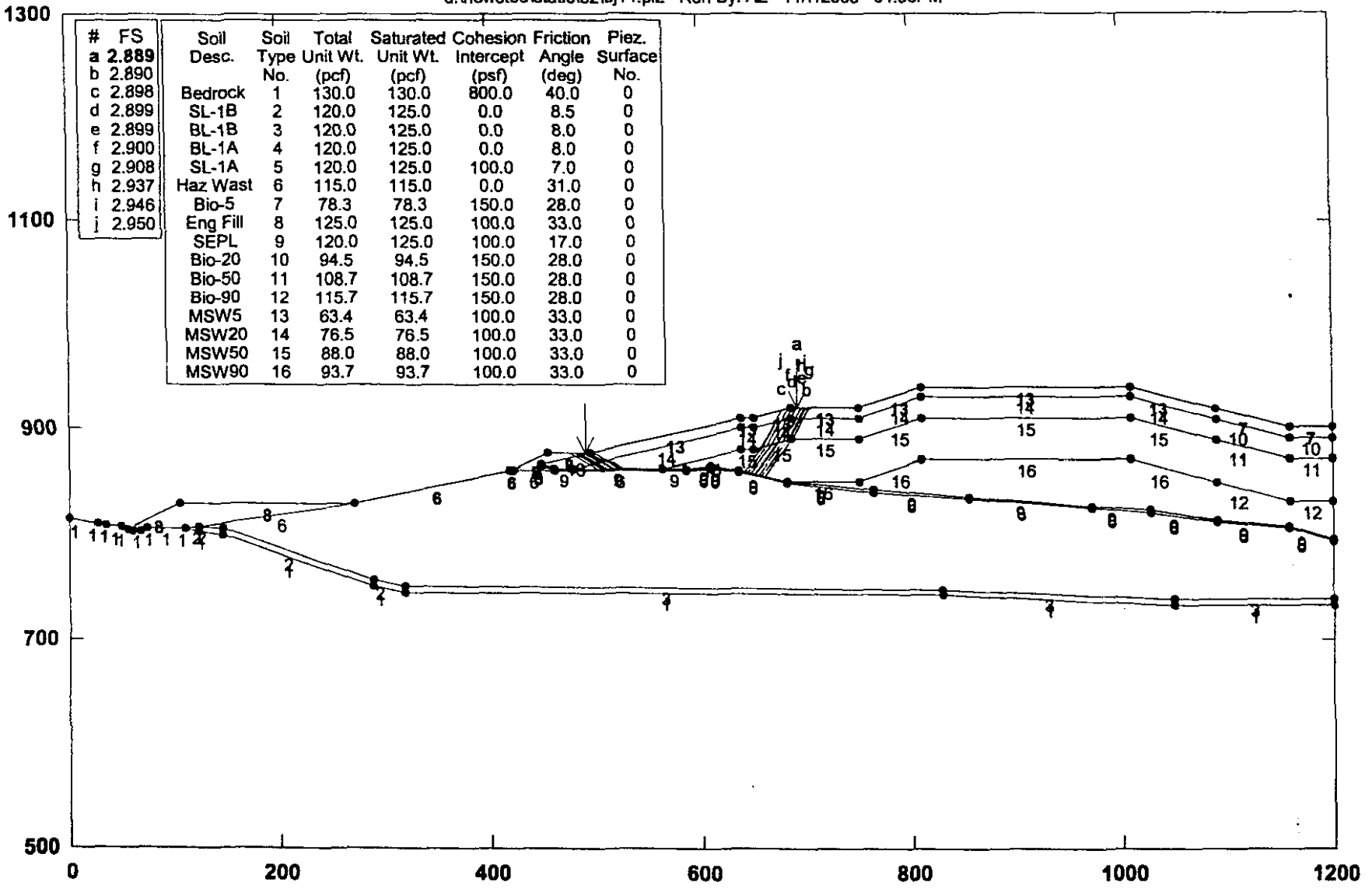
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj14.pl2 Run By: AZ 11/7/2003 04:58PM

#	FS
a	2.889
b	2.890
c	2.898
d	2.899
e	2.899
f	2.900
g	2.908
h	2.937
i	2.946
j	2.950

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.889

Safety Factors Are Calculated By The Simplified Janbu Method

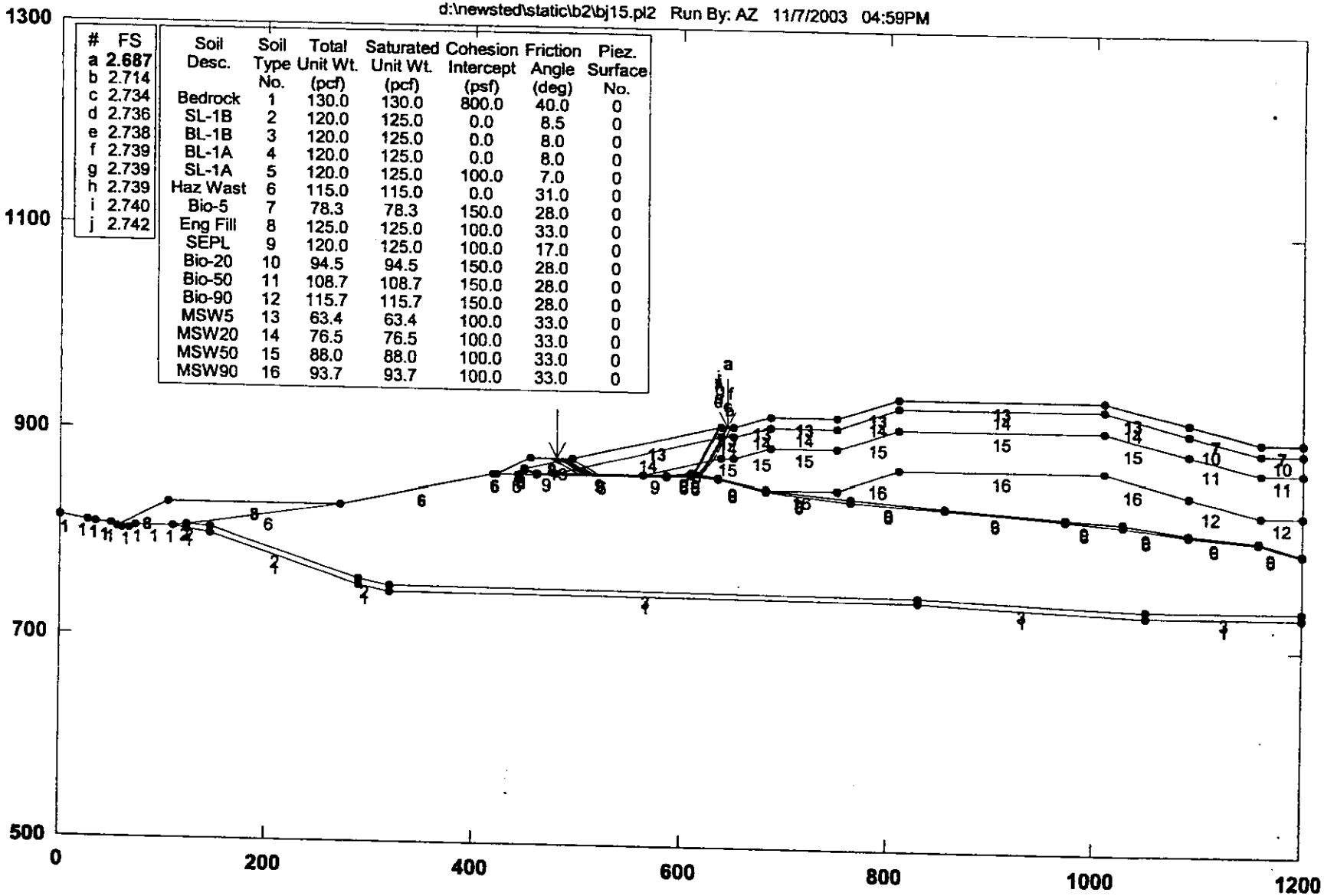
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj15.pl2 Run By: AZ 11/7/2003 04:59PM

#	FS
a	2.687
b	2.714
c	2.734
d	2.736
e	2.738
f	2.739
g	2.739
h	2.739
i	2.740
j	2.742

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.687

Safety Factors Are Calculated By The Simplified Janbu Method

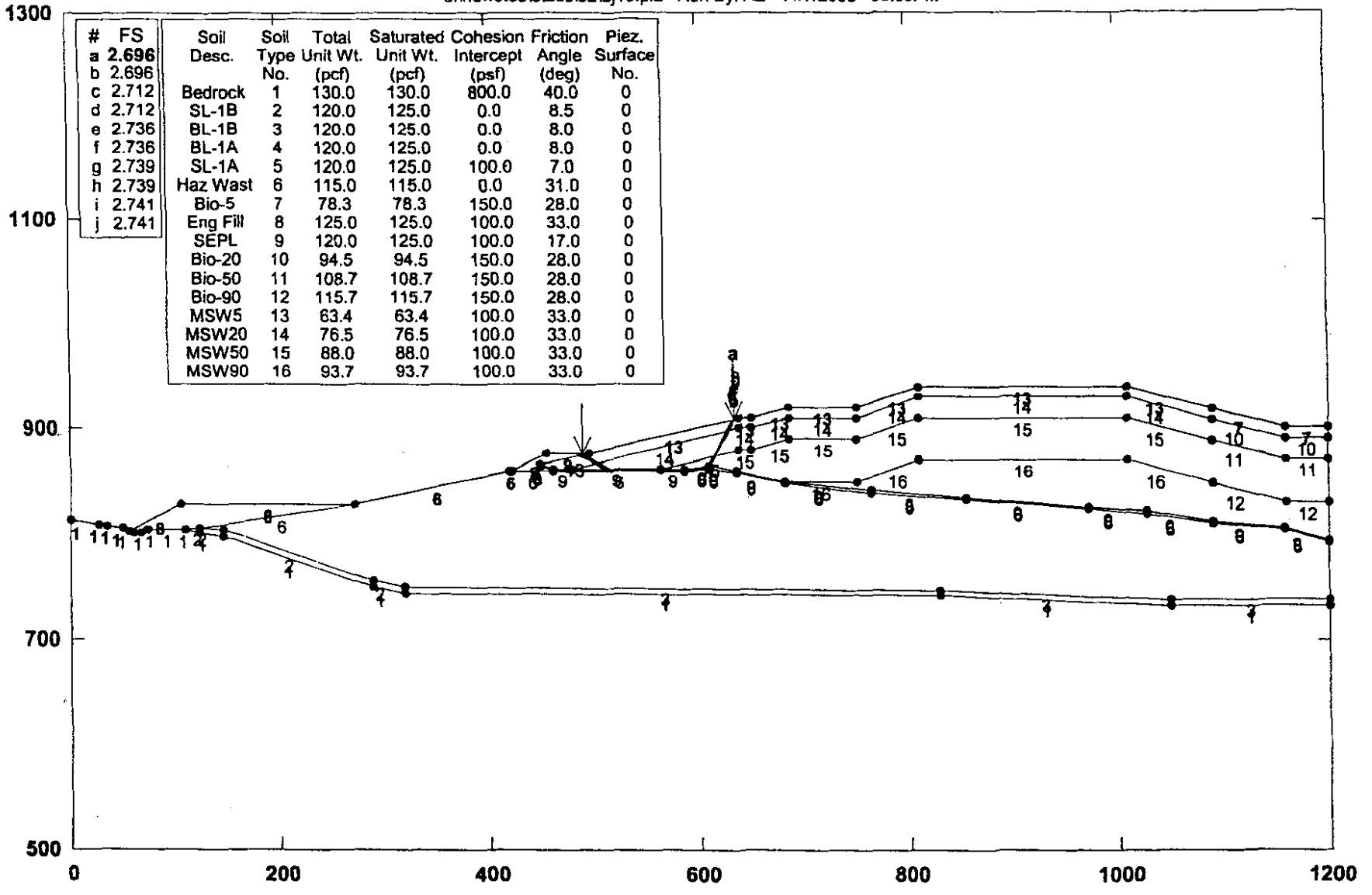
GSTABL7

KHF B-B' Static Janbu Block Search

d:\newsted\static\b2\bj16.pl2 Run By: AZ 11/7/2003 05:00PM

#	FS
a	2.696
b	2.696
c	2.712
d	2.712
e	2.736
f	2.736
g	2.739
h	2.739
i	2.741
j	2.741

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.696

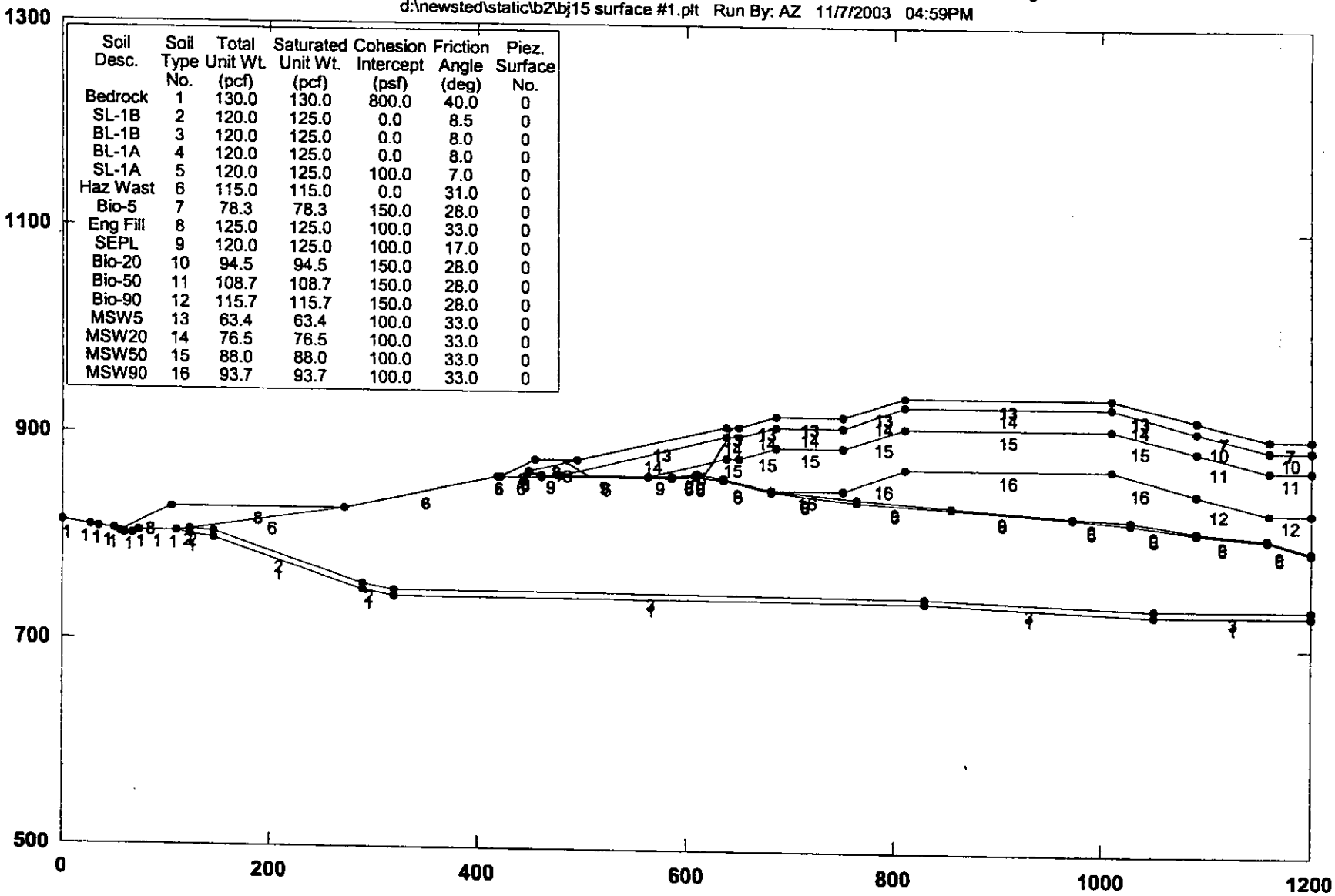
Safety Factors Are Calculated By The Simplified Janbu Method

GSTABL7

KHF B-B' Failure Plane II Spencer Static Slope Stability

d:\newsted\static\b2\bj15 surface #1.plt Run By: AZ 11/7/2003 04:59PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=3.128

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

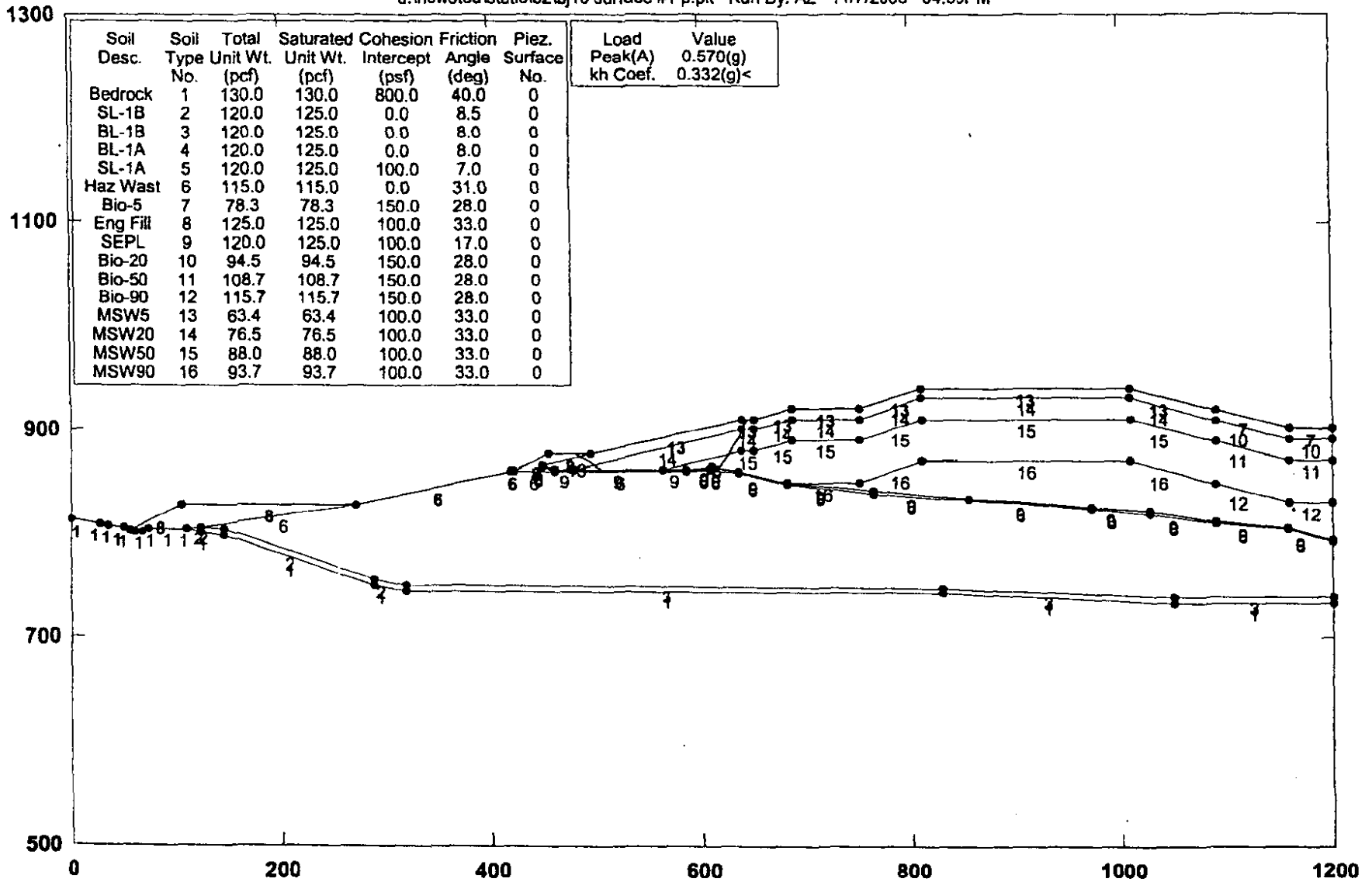
GSTABL7

KHF B-B' Failure Plane II Spencer Pseudo-Static Slope Stability

d:\newsted\static\b2\bj15 surface #1 p.plt Run By: AZ 11/7/2003 04:59PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
Bio-5	7	78.3	78.3	150.0	28.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
Bio-20	10	94.5	94.5	150.0	28.0	0
Bio-50	11	108.7	108.7	150.0	28.0	0
Bio-90	12	115.7	115.7	150.0	28.0	0
MSW5	13	63.4	63.4	100.0	33.0	0
MSW20	14	76.5	76.5	100.0	33.0	0
MSW50	15	88.0	88.0	100.0	33.0	0
MSW90	16	93.7	93.7	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.332(g)<



GSTABL7 v.2 FSmin=1.003

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

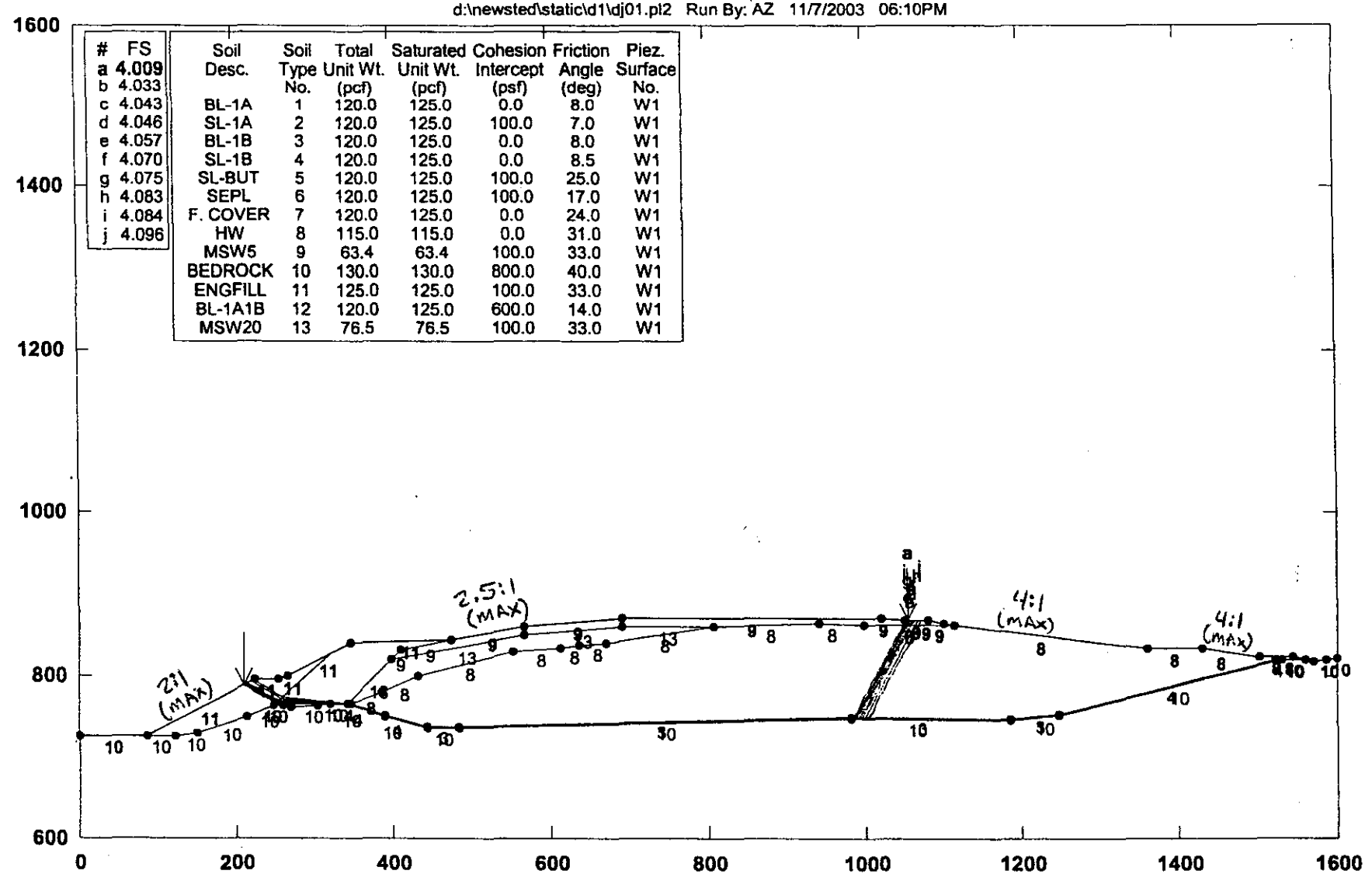
CROSS SECTION D-D'

KHF D-D' Static Janbu Block Search

d:\newsted\static\d1\dj01.pl2 Run By: AZ 11/7/2003 06:10PM

#	FS
a	4.009
b	4.033
c	4.043
d	4.046
e	4.057
f	4.070
g	4.075
h	4.083
i	4.084
j	4.096

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
BL-1A	1	120.0	125.0	0.0	8.0	W1
SL-1A	2	120.0	125.0	100.0	7.0	W1
BL-1B	3	120.0	125.0	0.0	8.0	W1
SL-1B	4	120.0	125.0	0.0	8.5	W1
SL-BUT	5	120.0	125.0	100.0	25.0	W1
SEPL	6	120.0	125.0	100.0	17.0	W1
F. COVER	7	120.0	125.0	0.0	24.0	W1
HW	8	115.0	115.0	0.0	31.0	W1
MSW5	9	63.4	63.4	100.0	33.0	W1
BEDROCK	10	130.0	130.0	800.0	40.0	W1
ENGFILL	11	125.0	125.0	100.0	33.0	W1
BL-1A1B	12	120.0	125.0	600.0	14.0	W1
MSW20	13	76.5	76.5	100.0	33.0	W1



GSTABL7 v.2 FSmin=4.009

Safety Factors Are Calculated By The Simplified Janbu Method

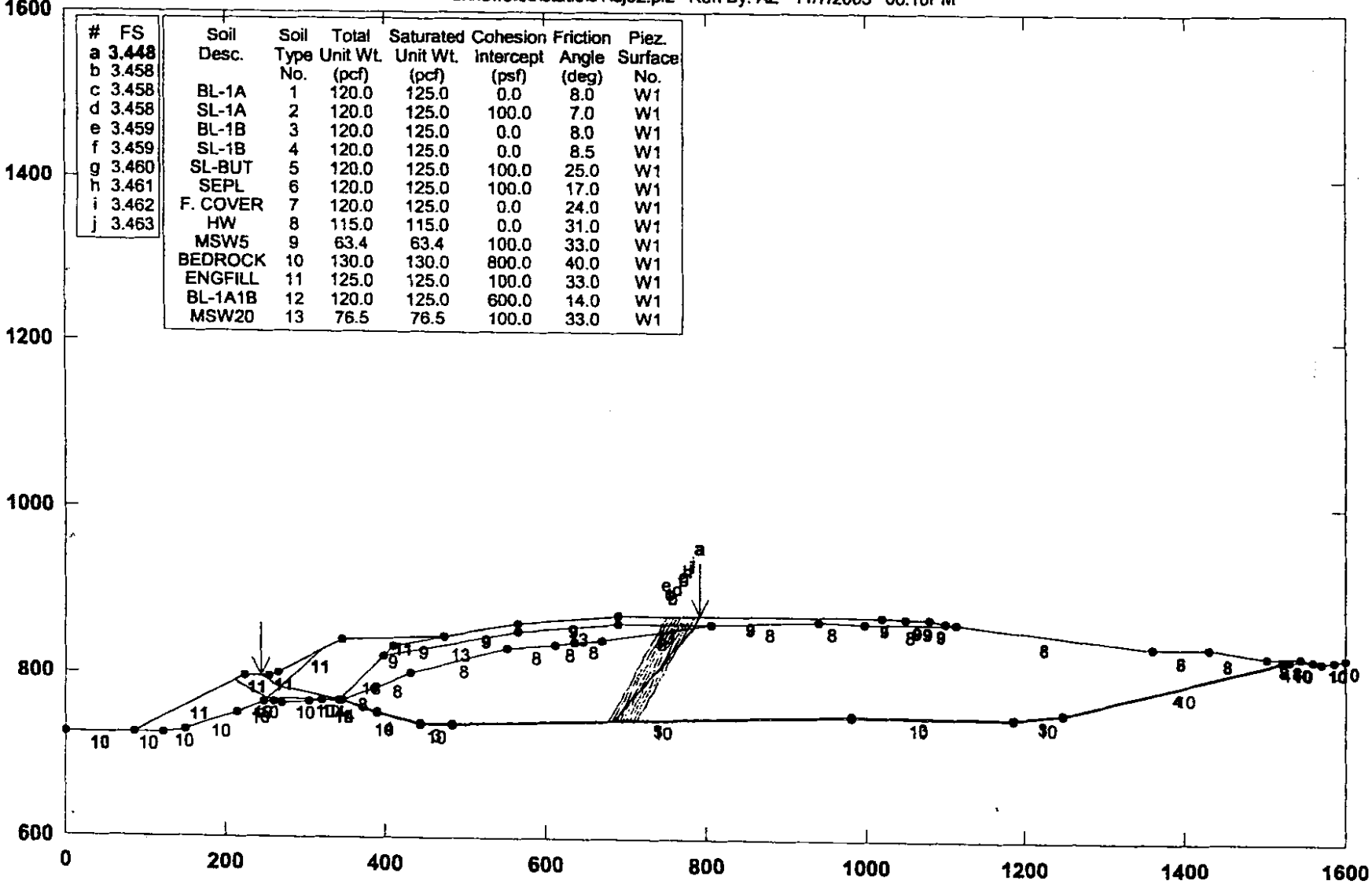
GSTABL7

KHF D-D' Static Janbu Block Search

d:\newsted\static\d1\dj02.pl2 Run By: AZ 11/7/2003 06:10PM

#	FS
a	3.448
b	3.458
c	3.458
d	3.458
e	3.459
f	3.459
g	3.460
h	3.461
i	3.462
j	3.463

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
BL-1A	1	120.0	125.0	0.0	8.0	W1
SL-1A	2	120.0	125.0	100.0	7.0	W1
BL-1B	3	120.0	125.0	0.0	8.0	W1
SL-1B	4	120.0	125.0	0.0	8.5	W1
SL-BUT	5	120.0	125.0	100.0	25.0	W1
SEPL	6	120.0	125.0	100.0	17.0	W1
F. COVER	7	120.0	125.0	0.0	24.0	W1
HW	8	115.0	115.0	0.0	31.0	W1
MSW5	9	63.4	63.4	100.0	33.0	W1
BEDROCK	10	130.0	130.0	800.0	40.0	W1
ENGFILL	11	125.0	125.0	100.0	33.0	W1
BL-1A1B	12	120.0	125.0	600.0	14.0	W1
MSW20	13	76.5	76.5	100.0	33.0	W1



GSTABL7 v.2 FSmin=3.448

Safety Factors Are Calculated By The Simplified Janbu Method

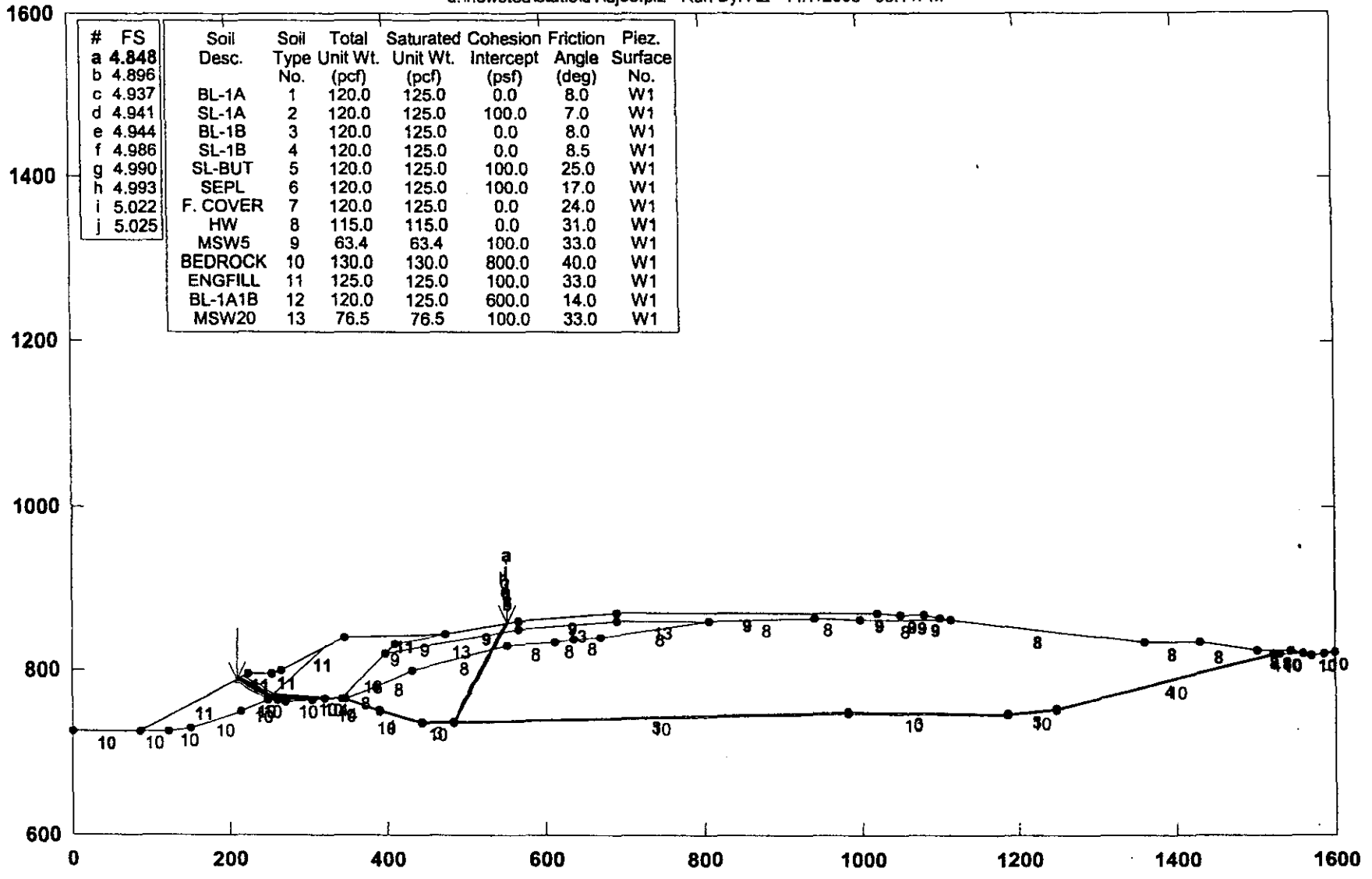
GSTABL7

KHF D-D' Static Janbu Block Search

d:\newsted\static\d1\dj03.pl2 Run By: AZ 11/7/2003 06:11PM

#	FS
a	4.848
b	4.896
c	4.937
d	4.941
e	4.944
f	4.986
g	4.990
h	4.993
i	5.022
j	5.025

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
BL-1A	1	120.0	125.0	0.0	8.0	W1
SL-1A	2	120.0	125.0	100.0	7.0	W1
BL-1B	3	120.0	125.0	0.0	8.0	W1
SL-1B	4	120.0	125.0	0.0	8.5	W1
SL-BUT	5	120.0	125.0	100.0	25.0	W1
SEPL	6	120.0	125.0	100.0	17.0	W1
F. COVER	7	120.0	125.0	0.0	24.0	W1
HW	8	115.0	115.0	0.0	31.0	W1
MSW5	9	63.4	63.4	100.0	33.0	W1
BEDROCK	10	130.0	130.0	800.0	40.0	W1
ENGFILL	11	125.0	125.0	100.0	33.0	W1
BL-1A1B	12	120.0	125.0	600.0	14.0	W1
MSW20	13	76.5	76.5	100.0	33.0	W1



GSTABL7 v.2 FSmin=4.848

Safety Factors Are Calculated By The Simplified Janbu Method

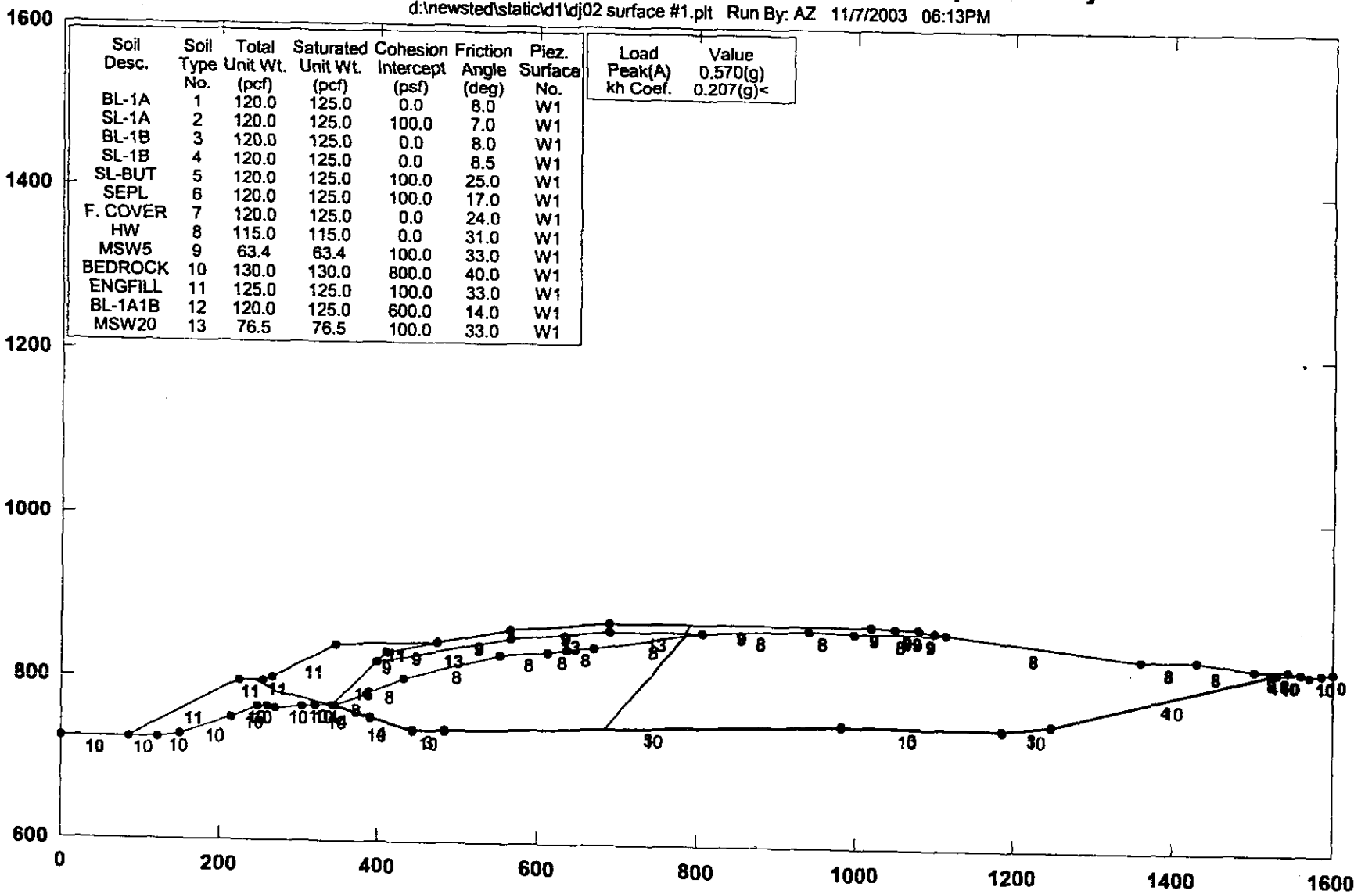
GSTABL7

KHF D-D' Failure Plane I Pseudo-Static Janbu Slope Stability

d:\newsted\static\d1\dj02 surface #1.plt Run By: AZ 11/7/2003 06:13PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
BL-1A	1	120.0	125.0	0.0	8.0	W1
SL-1A	2	120.0	125.0	100.0	7.0	W1
BL-1B	3	120.0	125.0	0.0	8.0	W1
SL-1B	4	120.0	125.0	0.0	8.5	W1
SL-BUT	5	120.0	125.0	100.0	25.0	W1
SEPL	6	120.0	125.0	100.0	17.0	W1
F. COVER	7	120.0	125.0	0.0	24.0	W1
HW	8	115.0	115.0	0.0	31.0	W1
MSW5	9	63.4	63.4	100.0	33.0	W1
BEDROCK	10	130.0	130.0	800.0	40.0	W1
ENGFILL	11	125.0	125.0	100.0	33.0	W1
BL-1A1B	12	120.0	125.0	600.0	14.0	W1
MSW20	13	76.5	76.5	100.0	33.0	W1

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.207(g)<



GSTABL7 v.2 FSmin=0.997

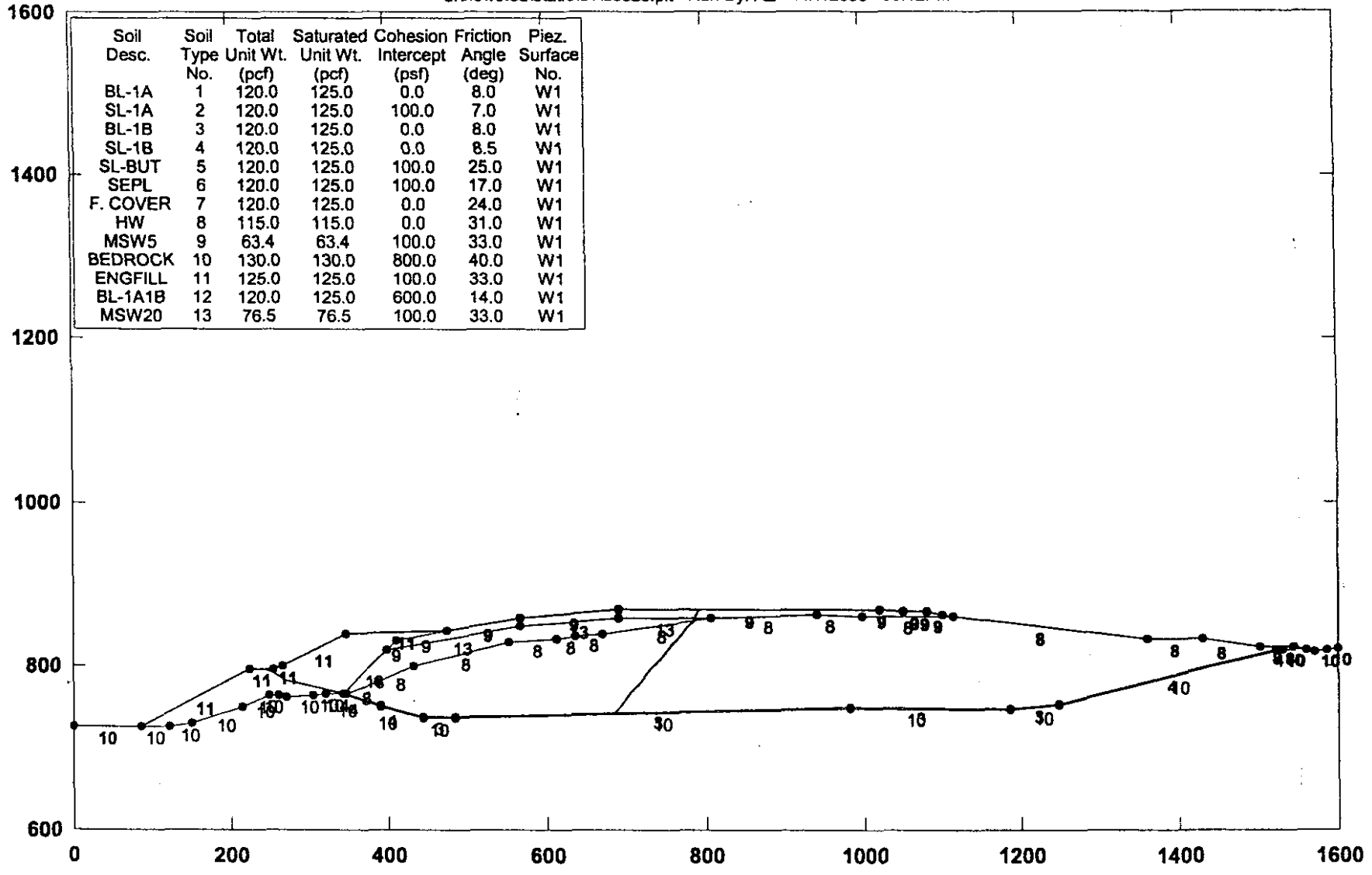
Factor Of Safety Is Calculated By The Simplified Janbu Method

GSTABL7

KHF D-D' Filure Plane I Spencer Static Slope Stability

d:\newsted\static\d1\ds02s.plt Run By: AZ 11/7/2003 06:12PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
BL-1A	1	120.0	125.0	0.0	8.0	W1
SL-1A	2	120.0	125.0	100.0	7.0	W1
BL-1B	3	120.0	125.0	0.0	8.0	W1
SL-1B	4	120.0	125.0	0.0	8.5	W1
SL-BUT	5	120.0	125.0	100.0	25.0	W1
SEPL	6	120.0	125.0	100.0	17.0	W1
F. COVER	7	120.0	125.0	0.0	24.0	W1
HW	8	115.0	115.0	0.0	31.0	W1
MSW5	9	63.4	63.4	100.0	33.0	W1
BEDROCK	10	130.0	130.0	800.0	40.0	W1
ENGFILL	11	125.0	125.0	100.0	33.0	W1
BL-1A1B	12	120.0	125.0	600.0	14.0	W1
MSW20	13	76.5	76.5	100.0	33.0	W1



GSTABL7 v.2 FSmin=3.854

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

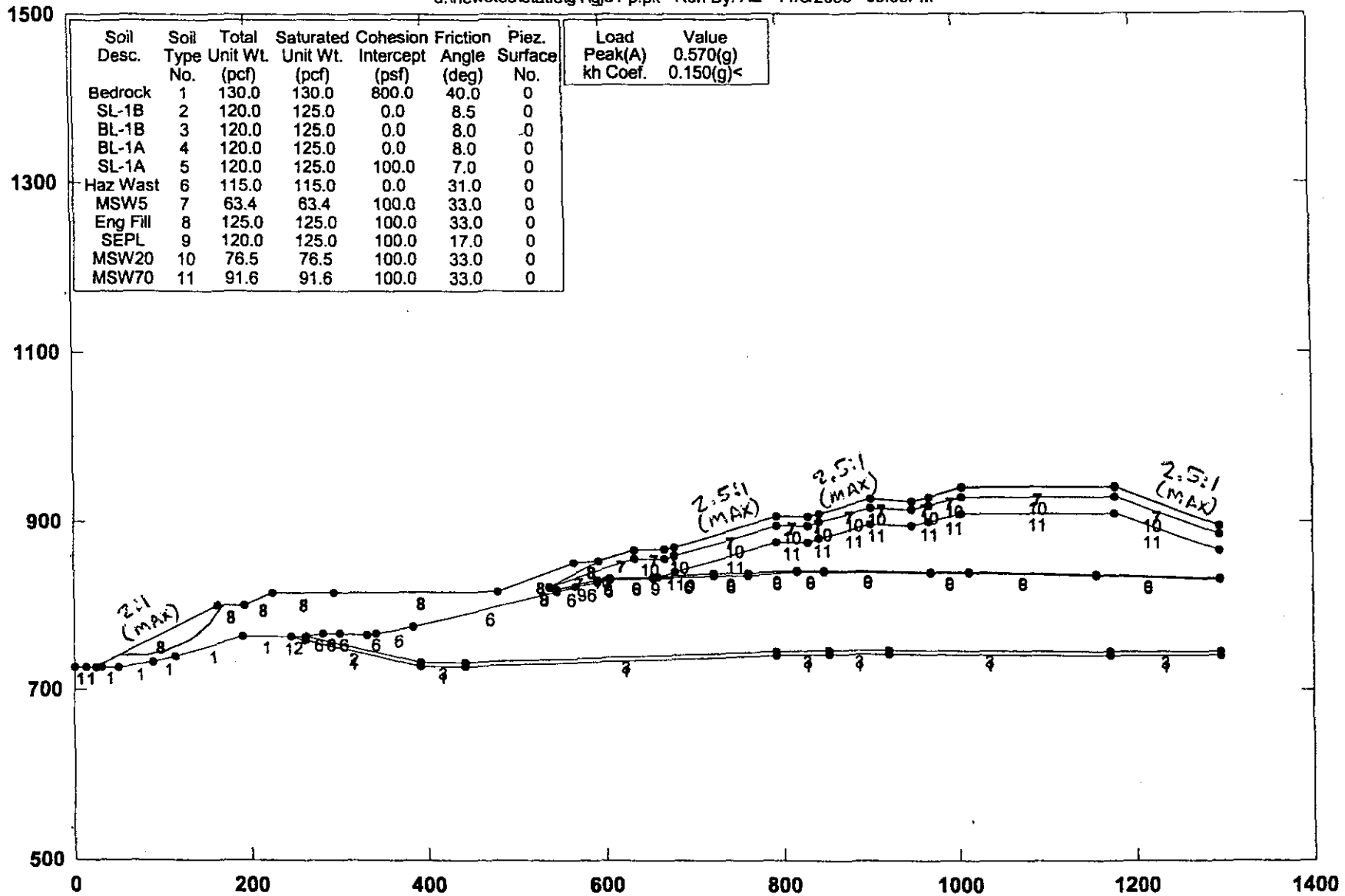
CROSS SECTION G-G'

KHF G-G' Failure Plane III Pseudo-Static Bishop Slope Stability

d:\newsted\static\g1\gj31 p.plt Run By: AZ 11/8/2003 05:08PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.150(g)<



GSTABL7 v.2 FSmin=1.156

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

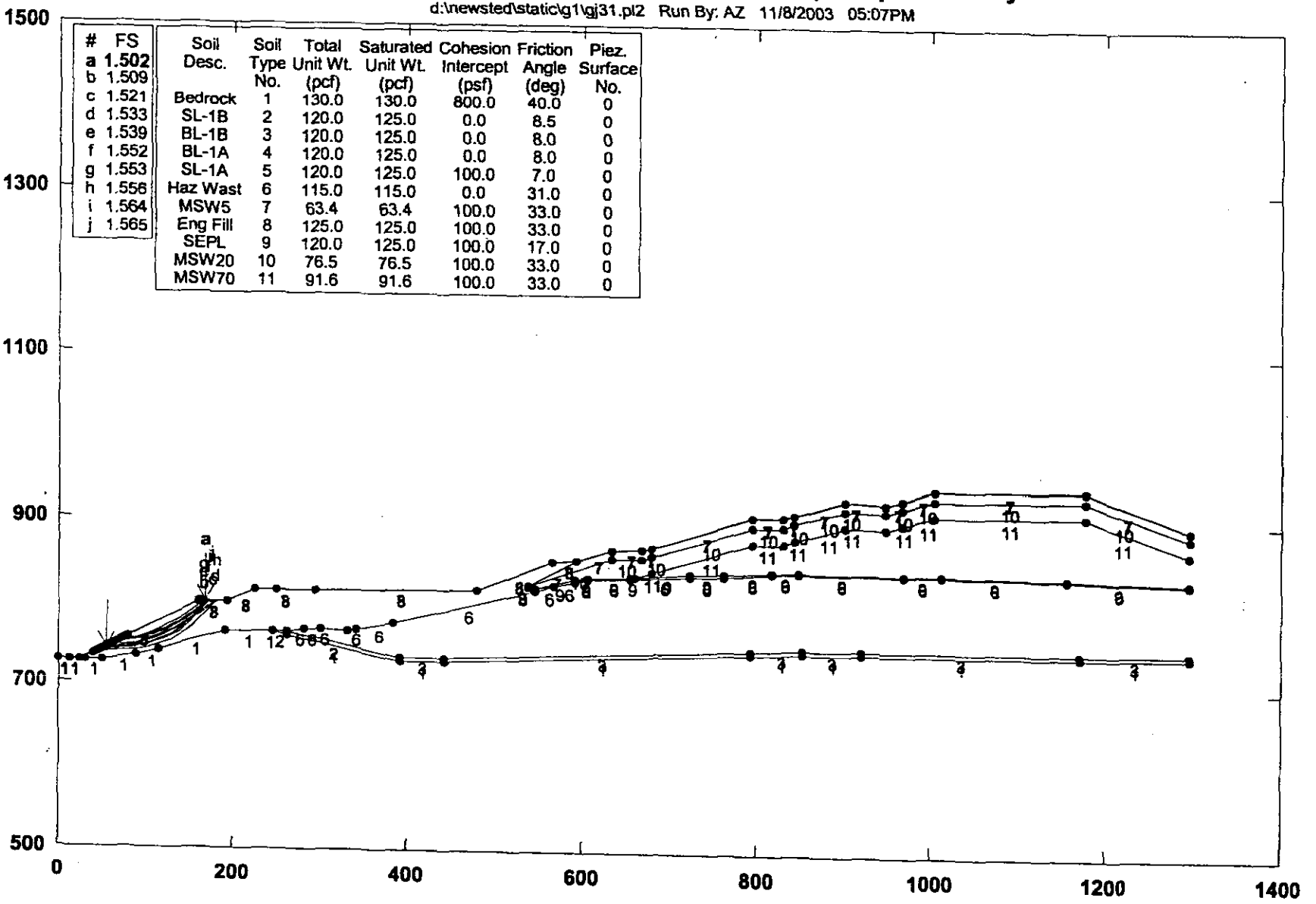
GSTABL7

KHF G-G' Failure Plane III Static Bishop Slope Stability

d:\newsted\static\g1\gj31.pl2 Run By: AZ 11/8/2003 05:07PM

#	FS
a	1.502
b	1.509
c	1.521
d	1.533
e	1.539
f	1.552
g	1.553
h	1.556
i	1.564
j	1.565

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=1.502

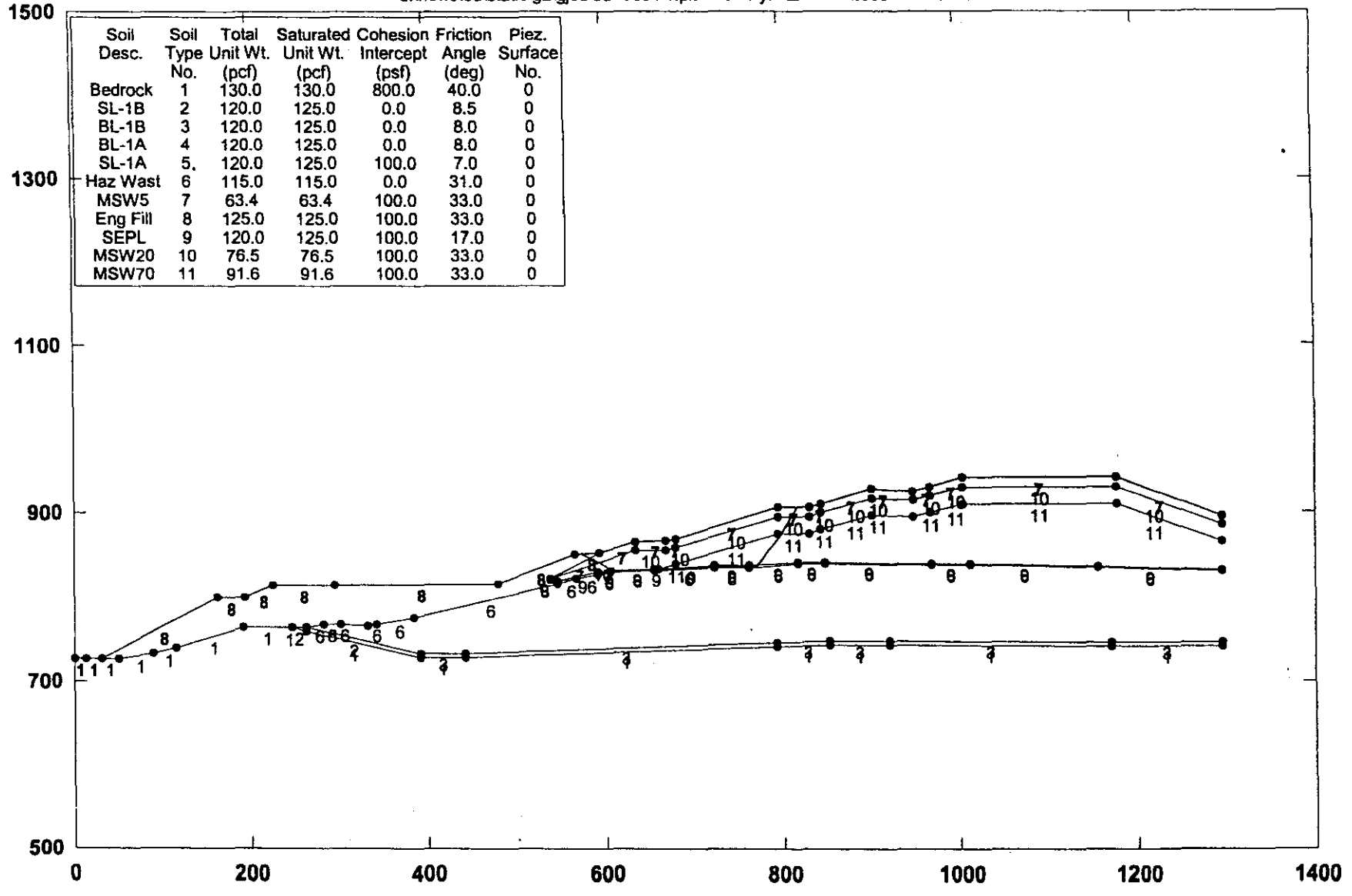
Safety Factors Are Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

KHF G-G' Failure Plane II Spencer Static Slope Stability

d:\newsted\static\g2\gj03 surface #1.plt Run By: AZ 11/7/2003 10:43PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5.	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.667

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

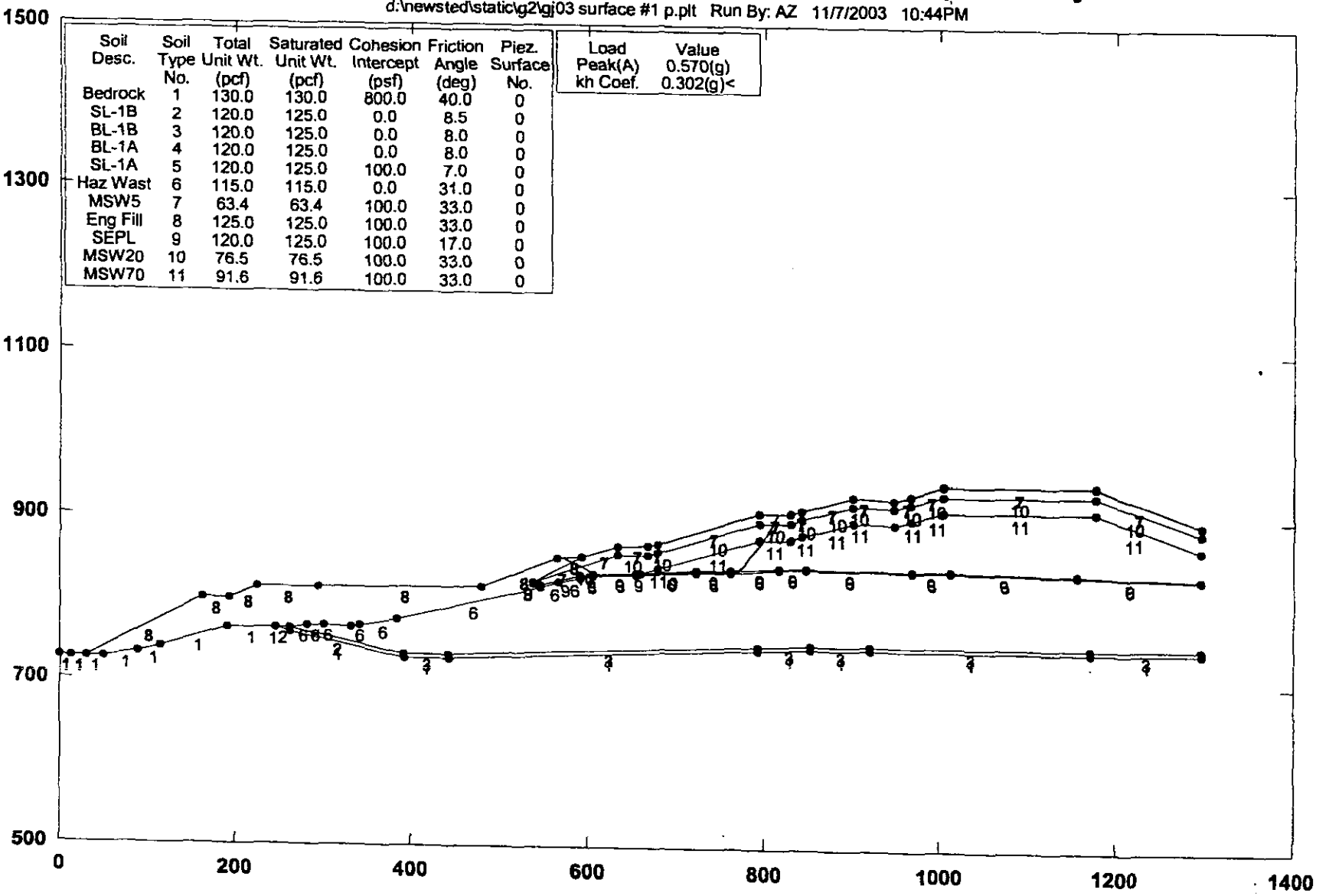
GSTABL7

KHF G-G' Failure Plane II Spencer Pseudo-Static Slope Stability

d:\newsted\static\g2\gj03 surface #1 p.plt Run By: AZ 11/7/2003 10:44PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.302(g)<



GSTABL7 v.2 FSmin=0.997

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

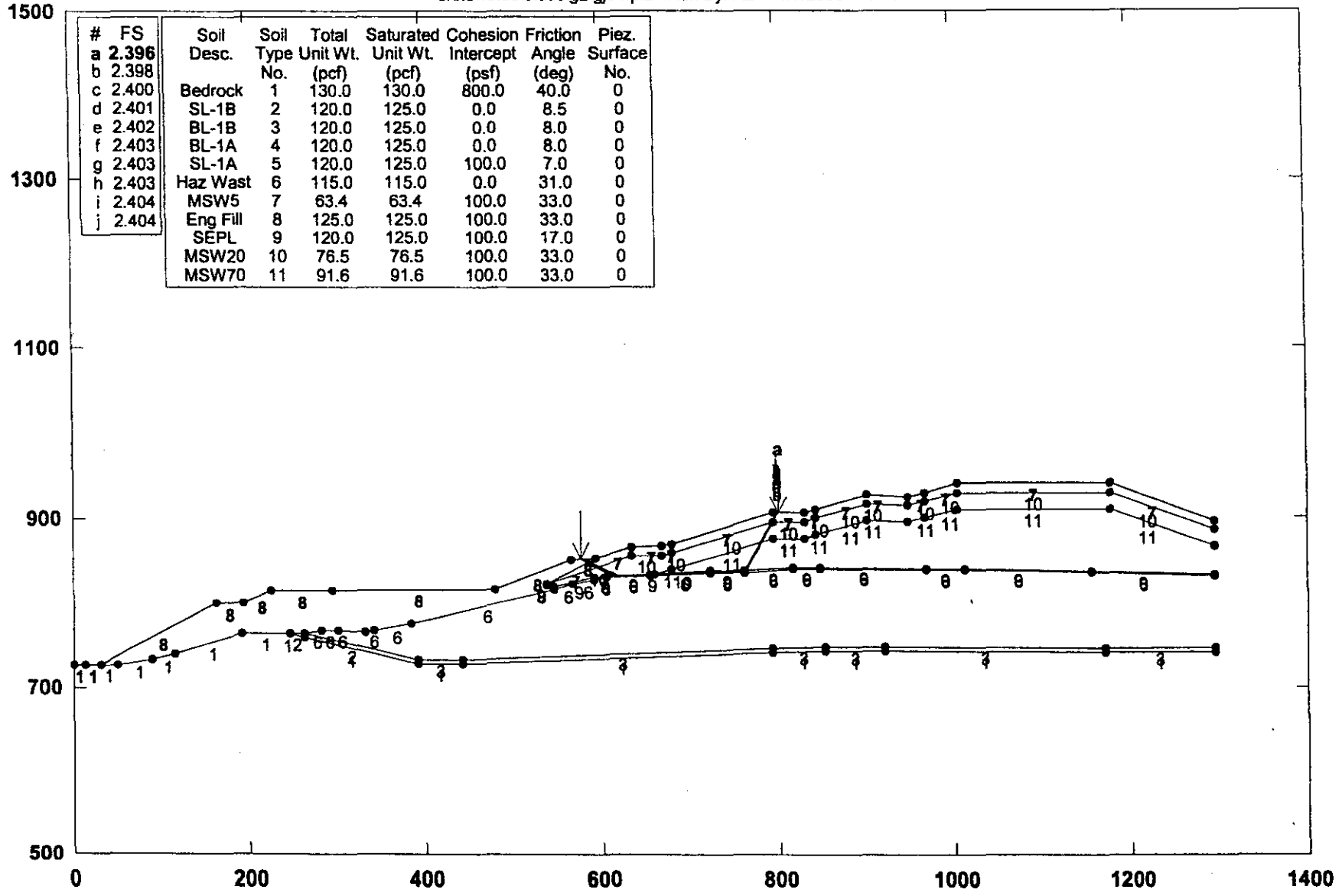
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj04.pl2 Run By: AZ 11/7/2003 10:40PM

#	FS
a	**2.396**
b	2.398
c	2.400
d	2.401
e	2.402
f	2.403
g	2.403
h	2.403
i	2.404
j	2.404

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.396

Safety Factors Are Calculated By The Simplified Janbu Method

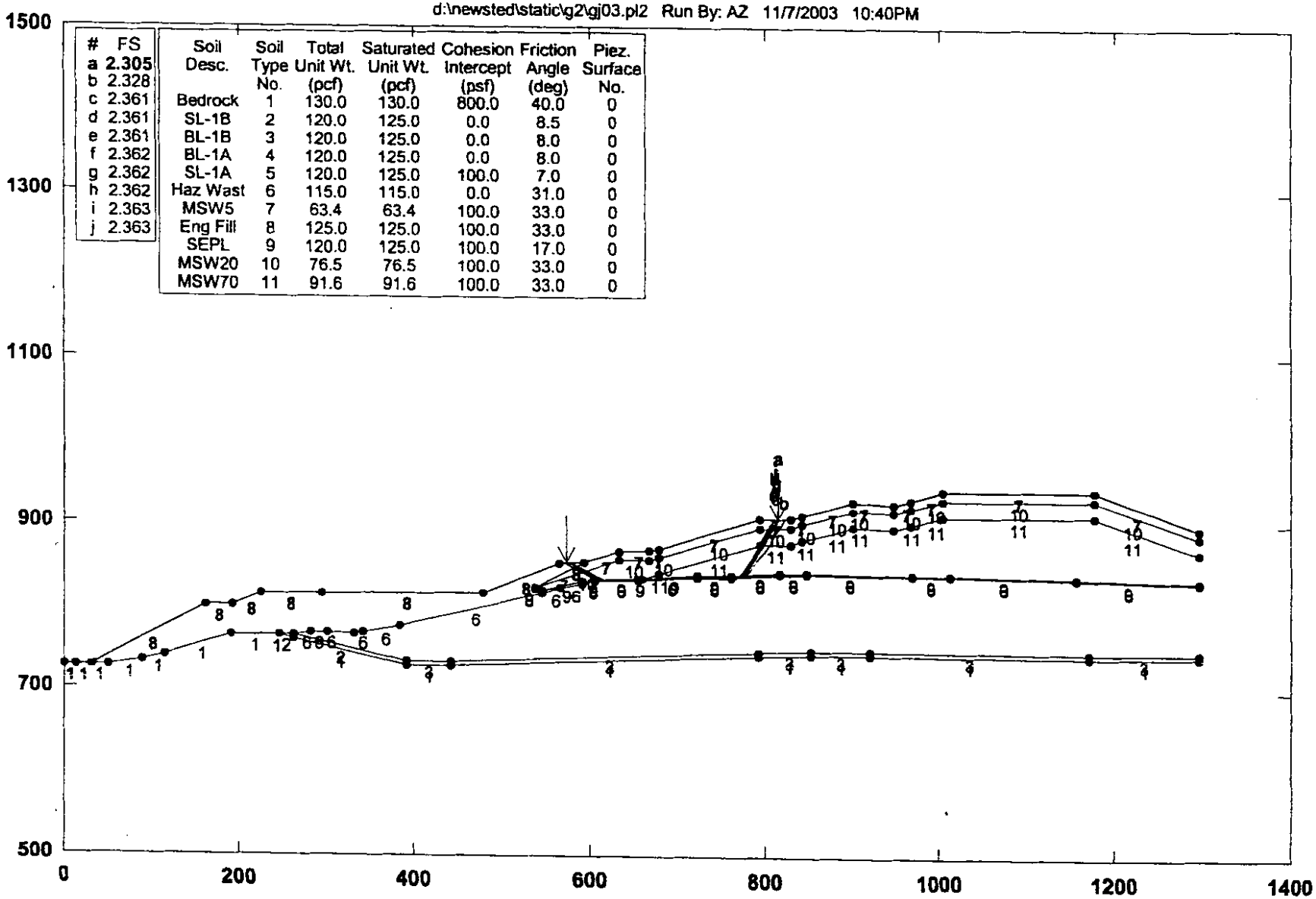
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj03.pl2 Run By: AZ 11/7/2003 10:40PM

#	FS
a	2.305
b	2.328
c	2.361
d	2.361
e	2.361
f	2.362
g	2.362
h	2.362
i	2.363
j	2.363

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.305

Safety Factors Are Calculated By The Simplified Janbu Method

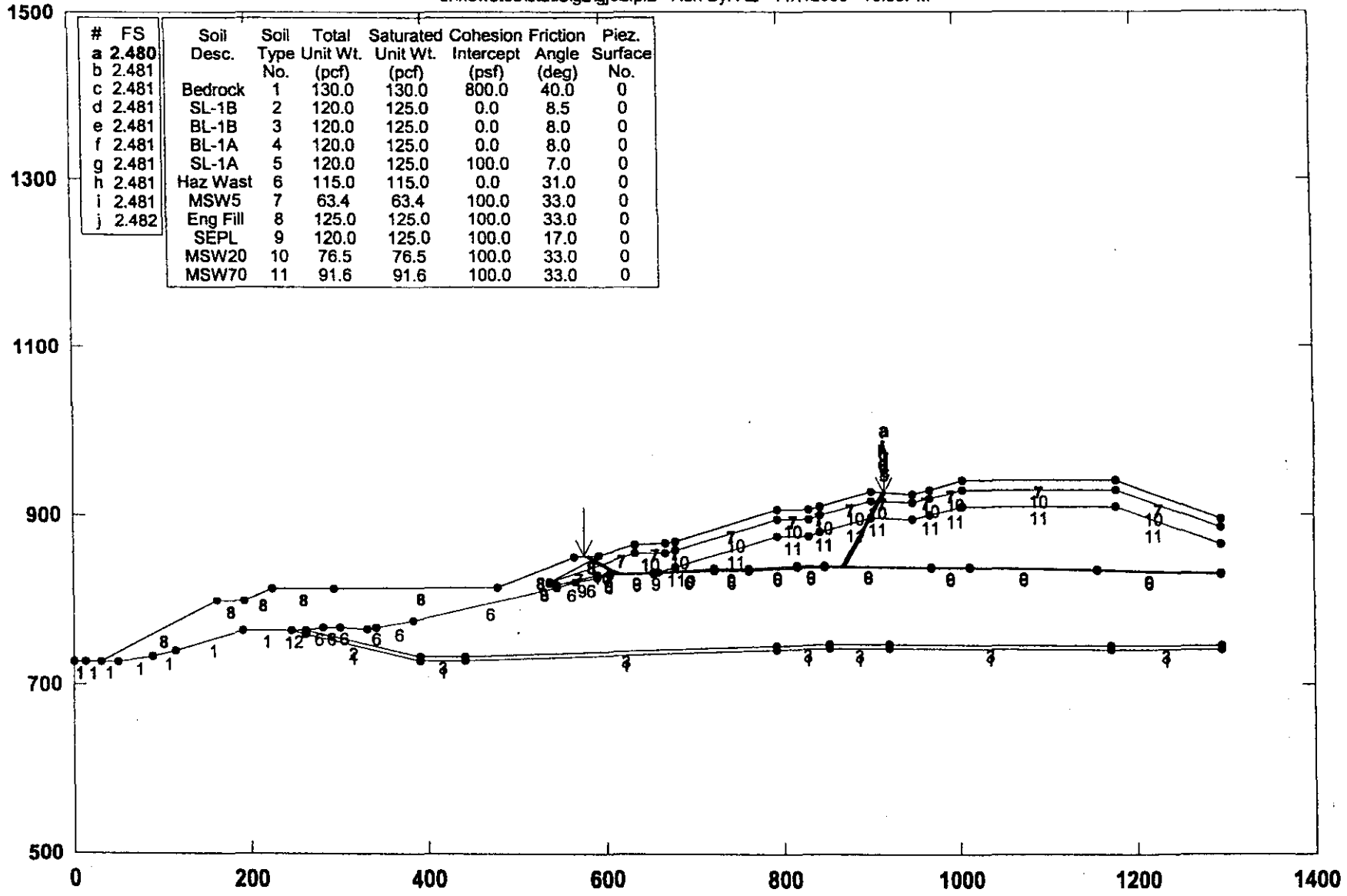
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj02.pl2 Run By: AZ 11/7/2003 10:39PM

#	FS
a	2.480
b	2.481
c	2.481
d	2.481
e	2.481
f	2.481
g	2.481
h	2.481
i	2.481
j	2.482

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.480

Safety Factors Are Calculated By The Simplified Janbu Method

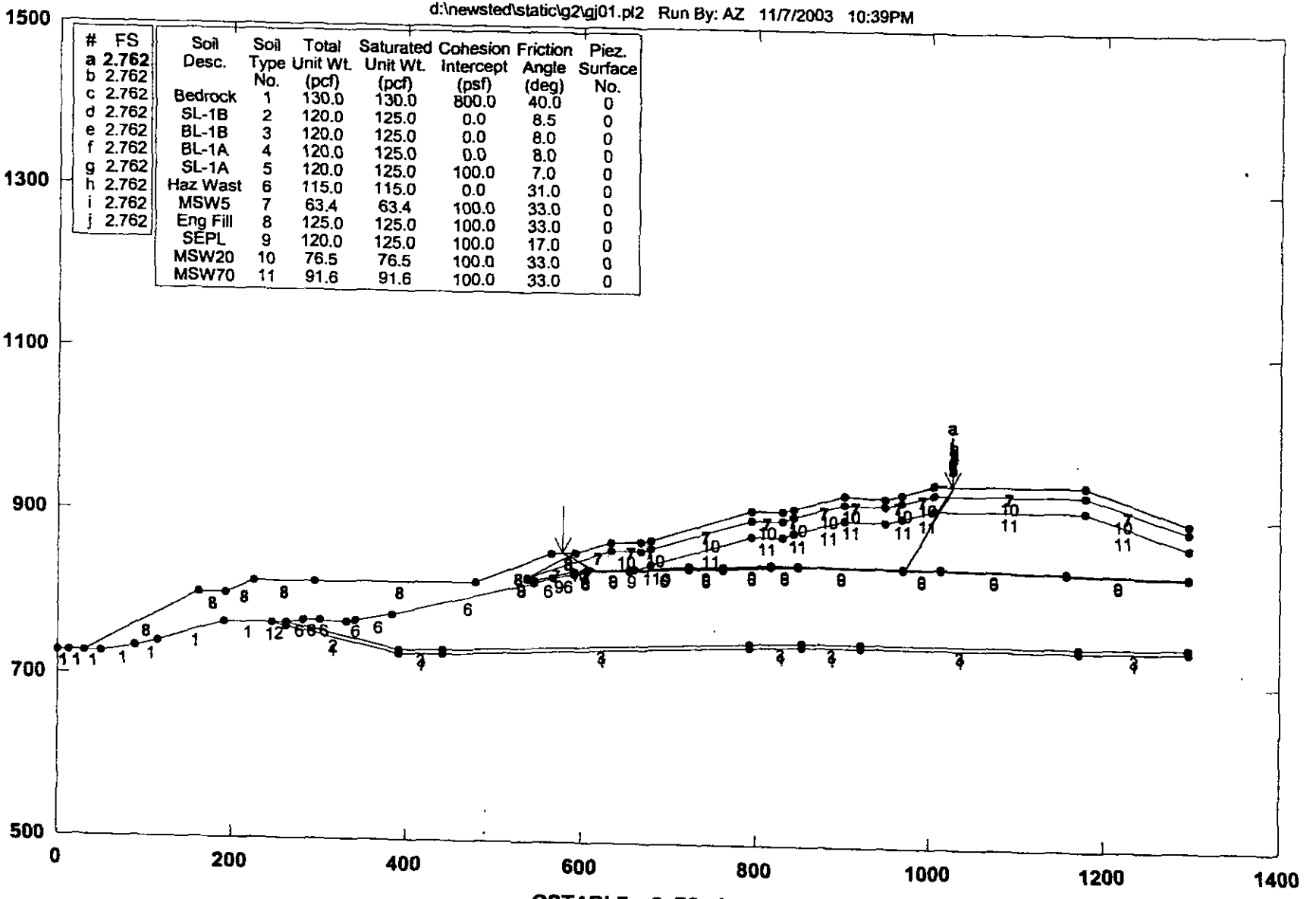
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj01.pl2 Run By: AZ 11/7/2003 10:39PM

#	FS
a	2.762
b	2.762
c	2.762
d	2.762
e	2.762
f	2.762
g	2.762
h	2.762
i	2.762
j	2.762

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.762

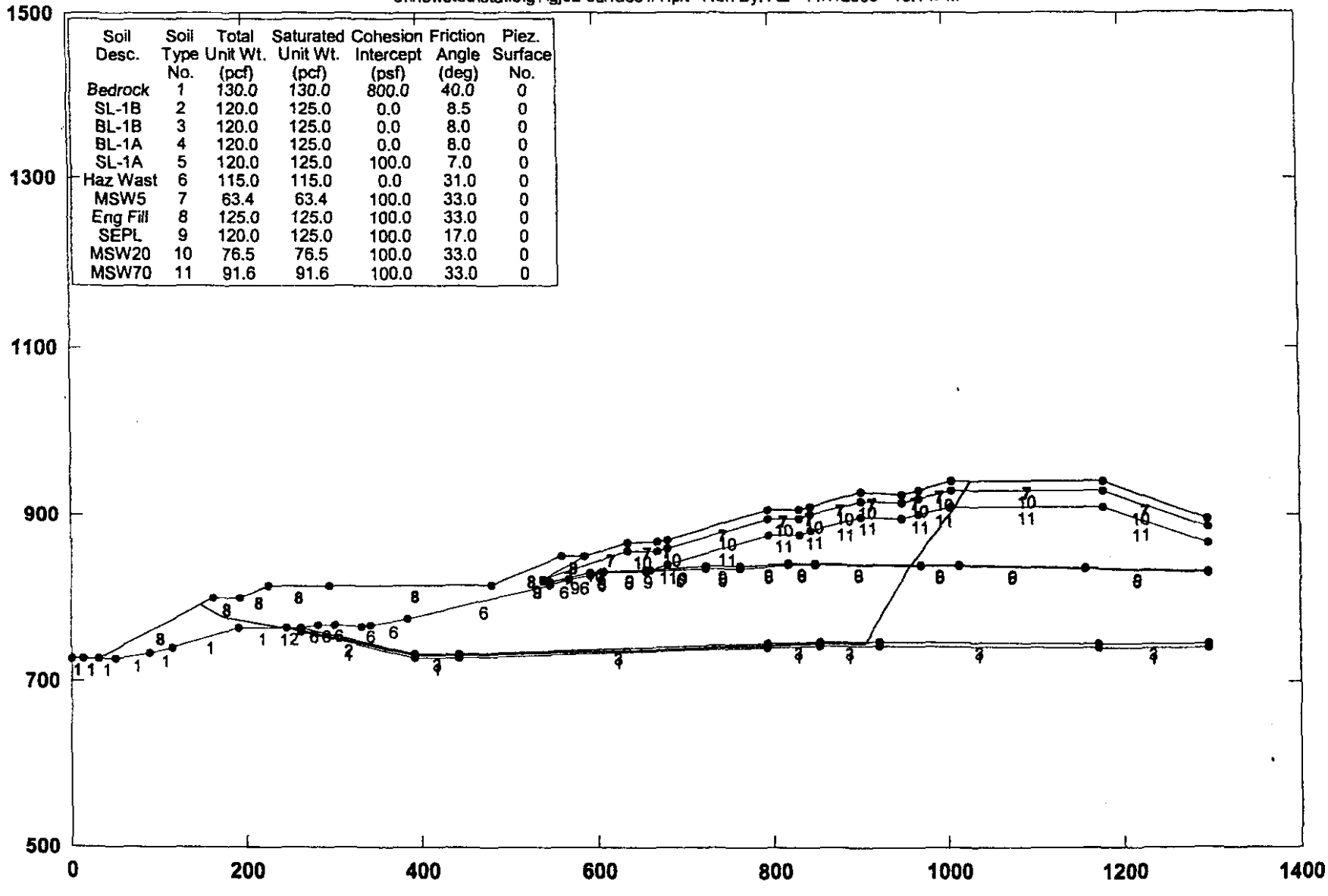
Safety Factors Are Calculated By The Simplified Janbu Method

GSTABL7

KHF G-G' Failure Plane I Spencer Static Slope Stability

d:\newsted\static\g1\gj02 surface #1.plt Run By: AZ 11/7/2003 10:14PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	*1*	*130.0*	*130.0*	*800.0*	*40.0*	*0*
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.215

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

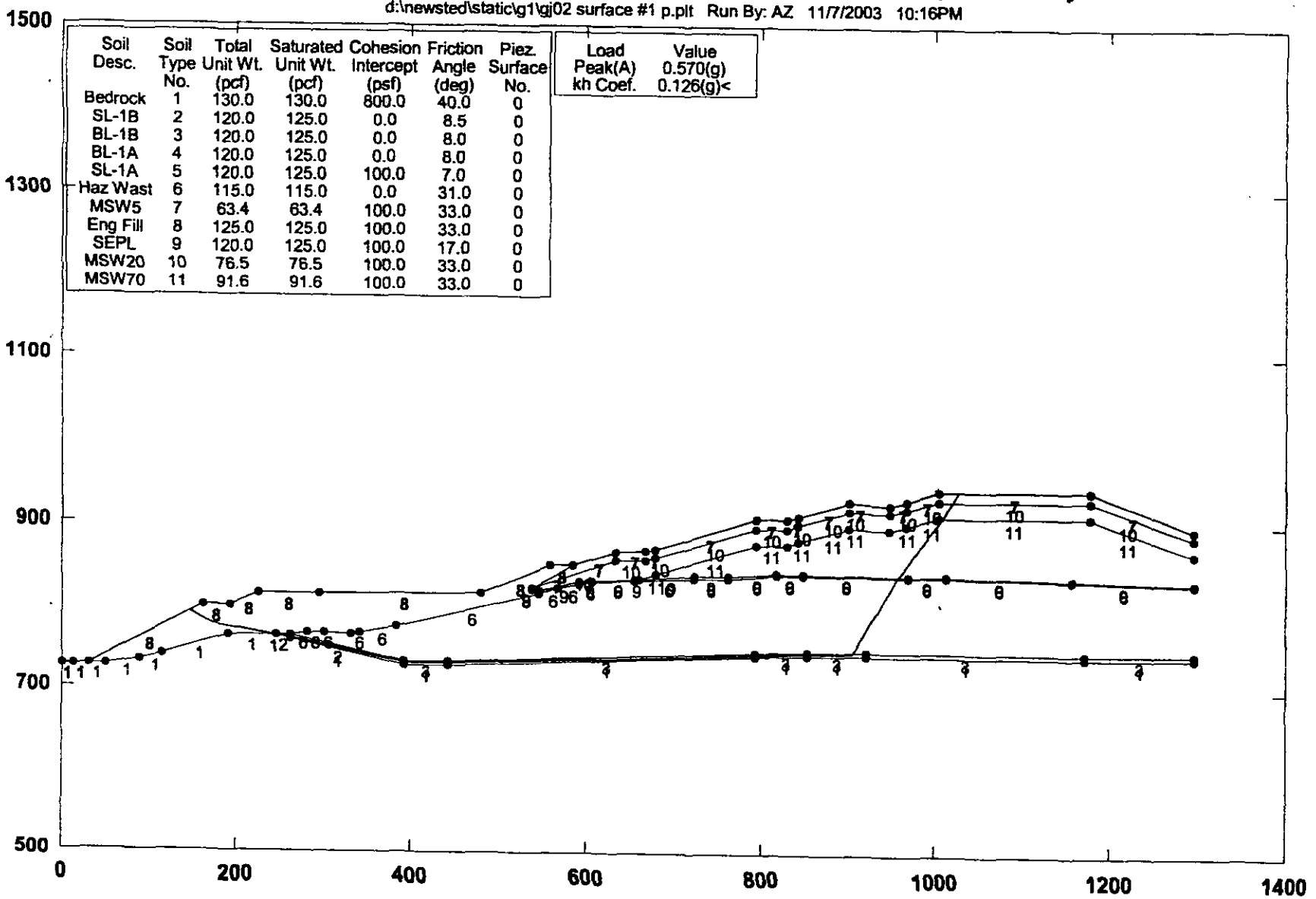
GSTABL7

KHF G-G' Failure Plane I Spencer Pseudo- Static Slope Stability

d:\newsted\static\g1\gj02 surface #1 p.plt Run By: AZ 11/7/2003 10:16PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.126(g)<



GSTABL7 v.2 FSmin=1.001

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

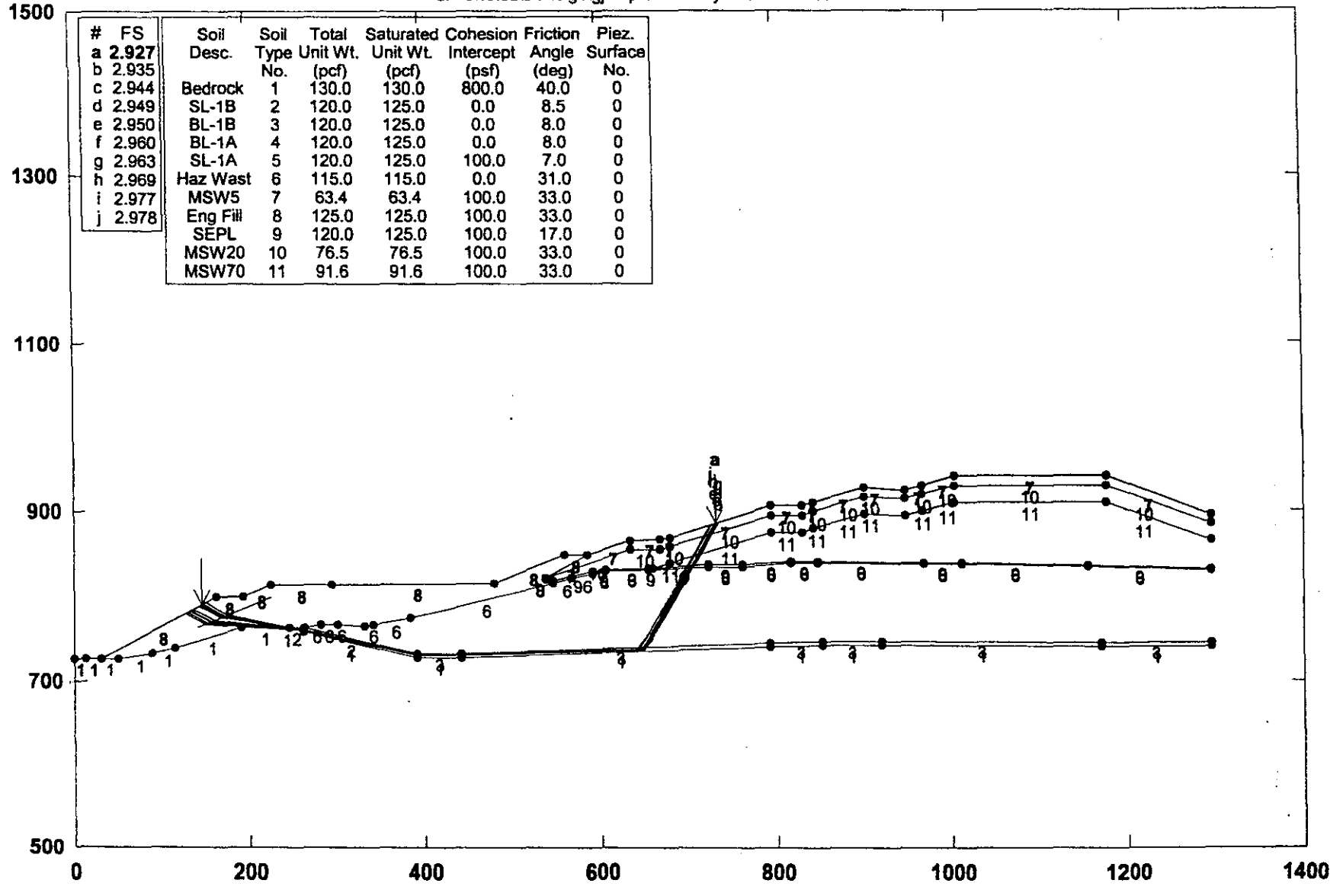
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g1\gj04.pl2 Run By: AZ 11/7/2003 10:13PM

#	FS
a	2.927
b	2.935
c	2.944
d	2.949
e	2.950
f	2.960
g	2.963
h	2.969
i	2.977
j	2.978

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.927

Safety Factors Are Calculated By The Simplified Janbu Method

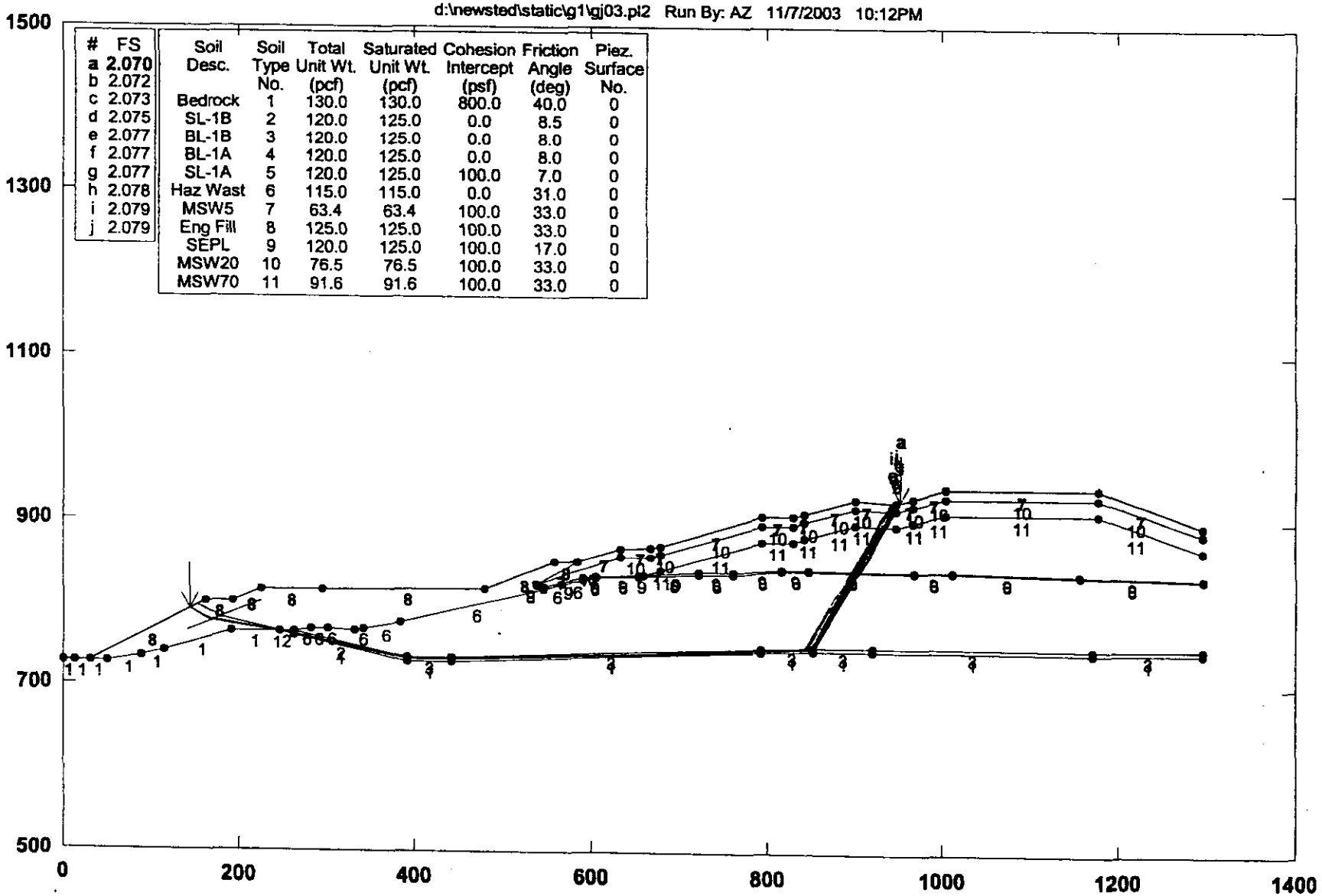
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g1\gj03.pl2 Run By: AZ 11/7/2003 10:12PM

#	FS
a	2.070
b	2.072
c	2.073
d	2.075
e	2.077
f	2.077
g	2.077
h	2.078
i	2.079
j	2.079

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.070

Safety Factors Are Calculated By The Simplified Janbu Method

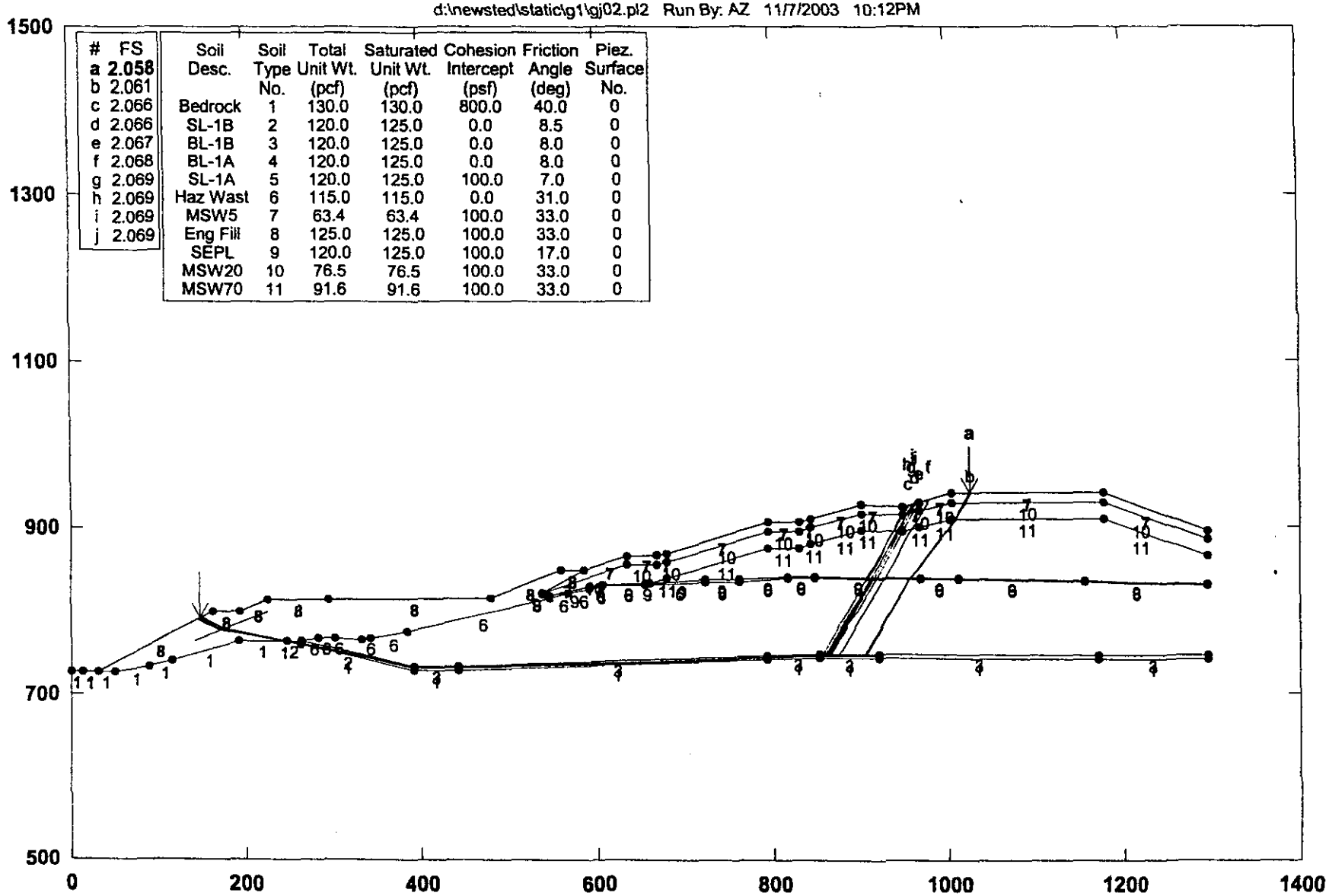
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g1\gj02.pl2 Run By: AZ 11/7/2003 10:12PM

#	FS
a	2.058
b	2.061
c	2.066
d	2.066
e	2.067
f	2.068
g	2.069
h	2.069
i	2.069
j	2.069

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.058

Safety Factors Are Calculated By The Simplified Janbu Method

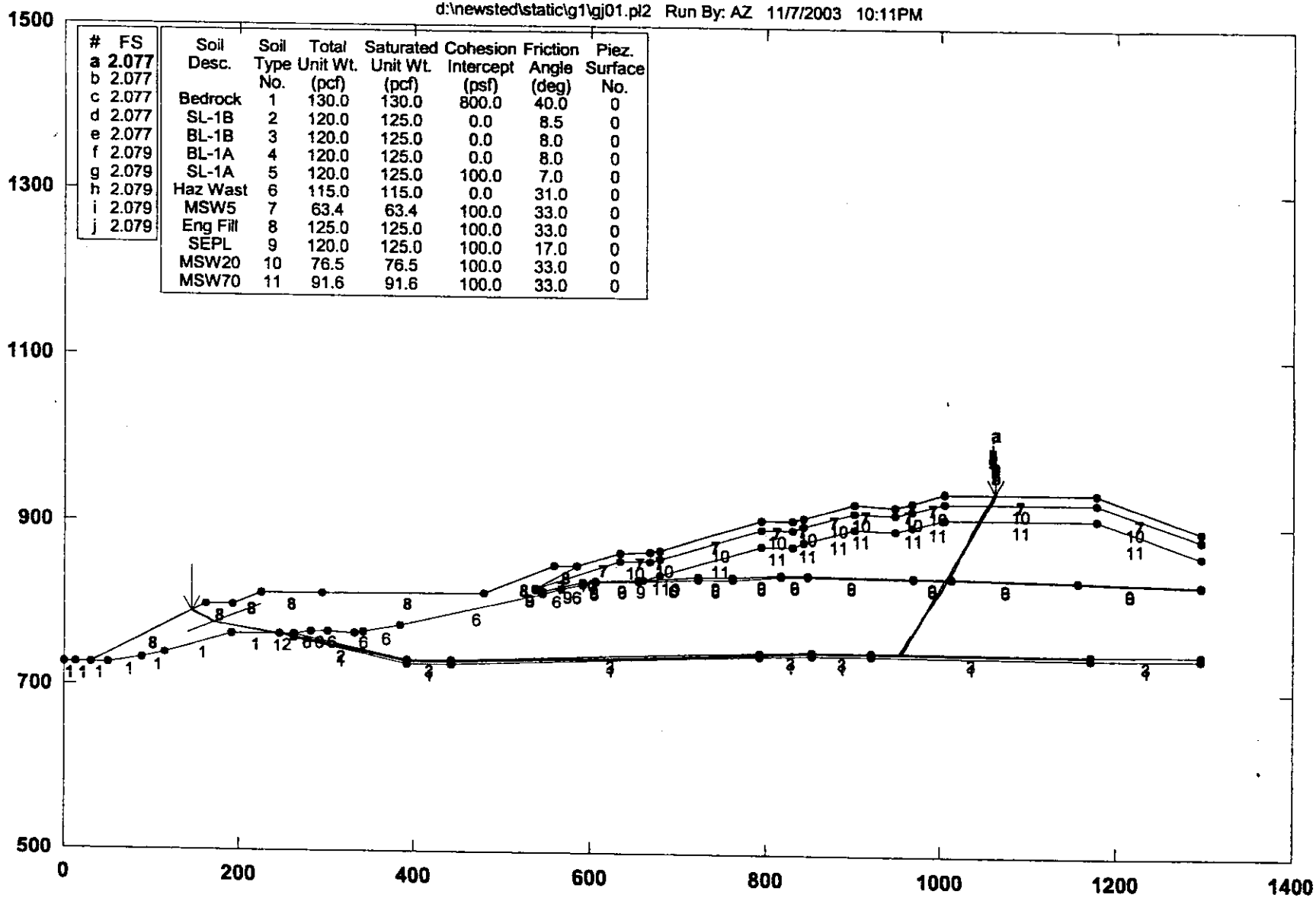
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g1\gj01.pl2 Run By: AZ 11/7/2003 10:11PM

#	FS
a	2.077
b	2.077
c	2.077
d	2.077
e	2.077
f	2.079
g	2.079
h	2.079
i	2.079
j	2.079

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW70	11	91.6	91.6	100.0	33.0	0



GSTABL7 v.2 FSmin=2.077

Safety Factors Are Calculated By The Simplified Janbu Method

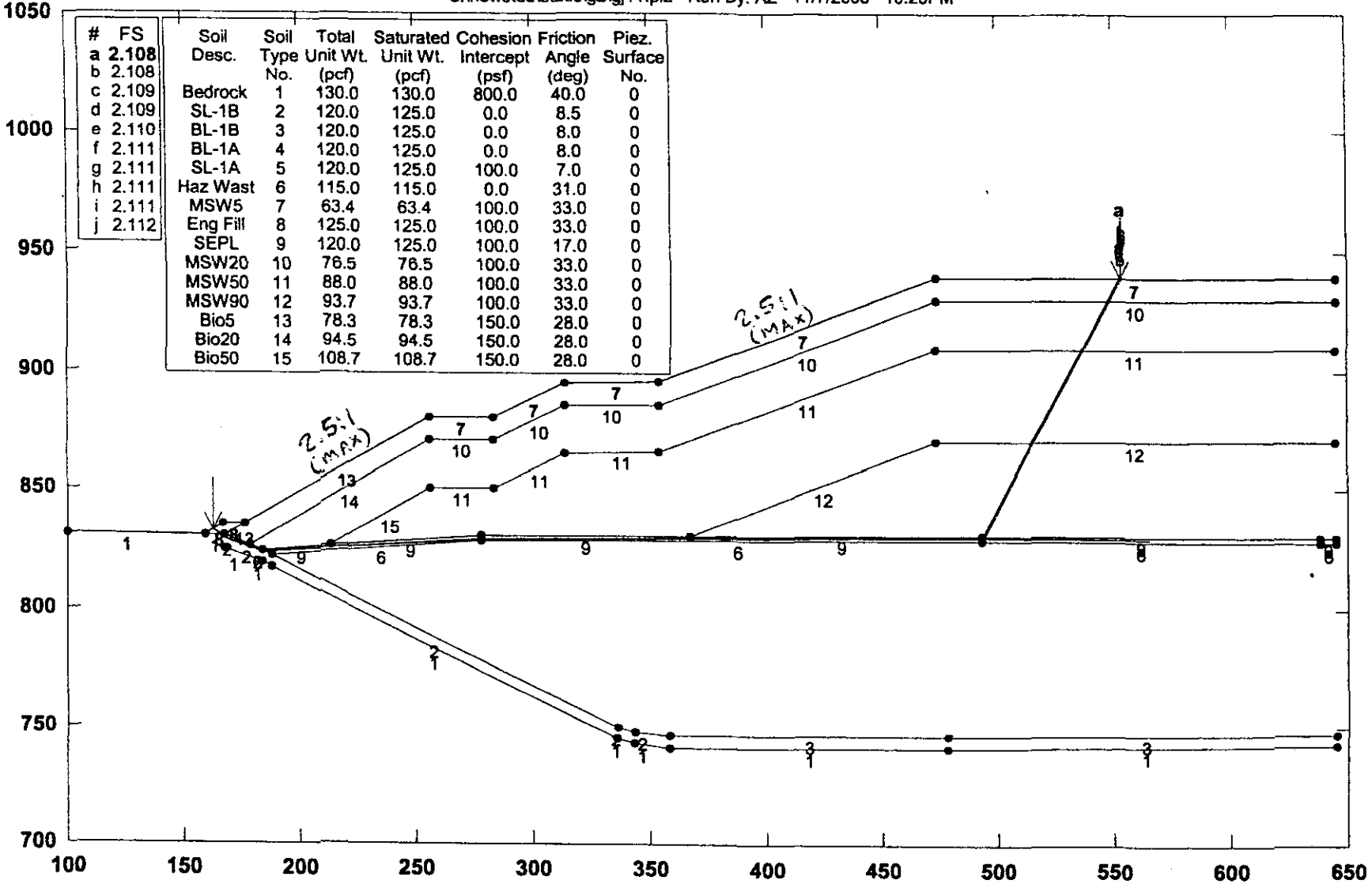
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj11.pl2 Run By: AZ 11/7/2003 10:20PM

#	FS
a	2.108
b	2.108
c	2.109
d	2.109
e	2.110
f	2.111
g	2.111
h	2.111
i	2.111
j	2.112

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio5	13	78.3	78.3	150.0	28.0	0
Bio20	14	94.5	94.5	150.0	28.0	0
Bio50	15	108.7	108.7	150.0	28.0	0



GSTABL7 v.2 FSmin=2.108

Safety Factors Are Calculated By The Simplified Janbu Method

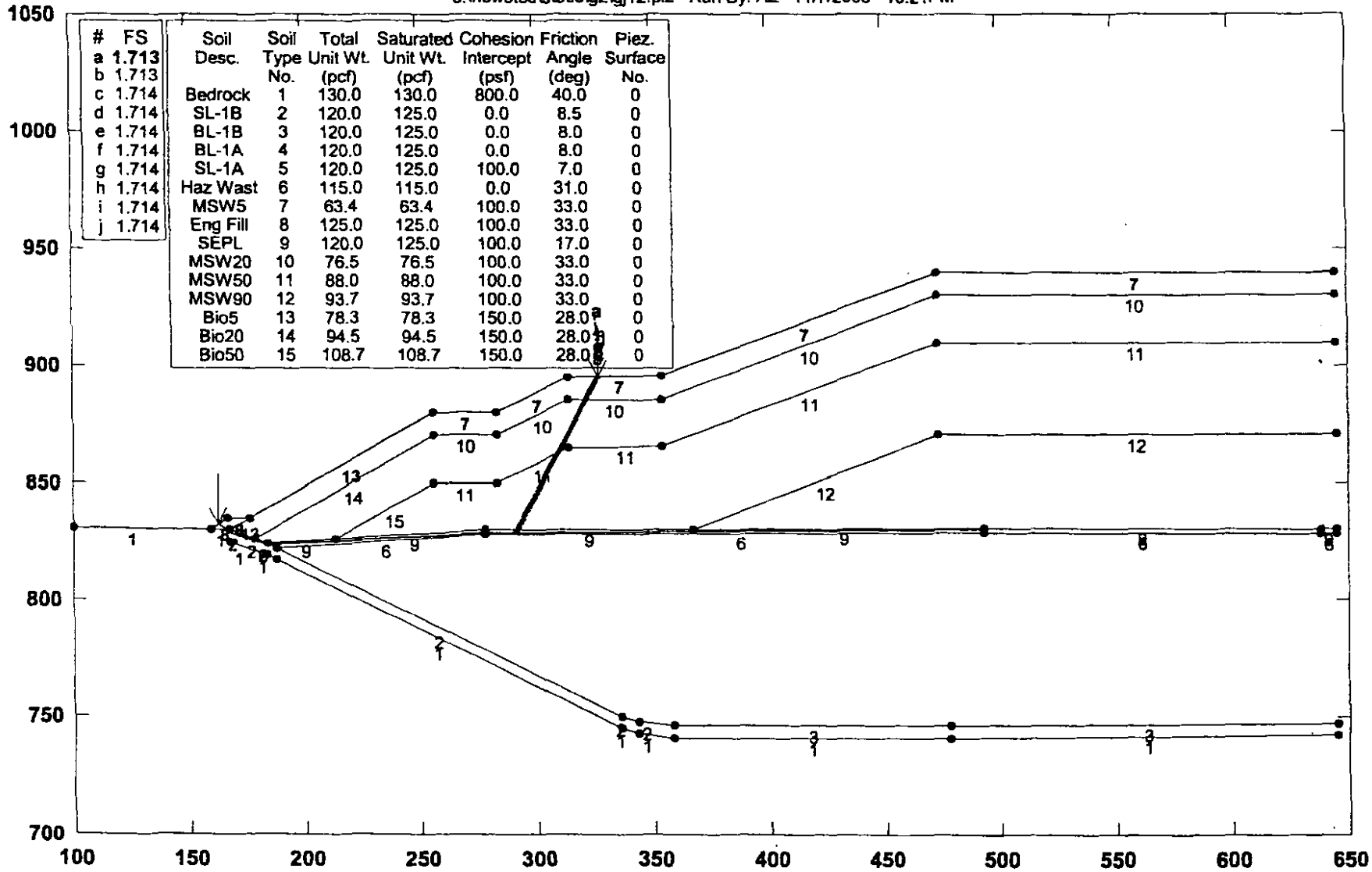
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj12.pl2 Run By: AZ 11/7/2003 10:21PM

#	FS
a	1.713
b	1.713
c	1.714
d	1.714
e	1.714
f	1.714
g	1.714
h	1.714
i	1.714
j	1.714

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio5	13	78.3	78.3	150.0	28.0	0
Bio20	14	94.5	94.5	150.0	28.0	0
Bio50	15	108.7	108.7	150.0	28.0	0



GSTABL7 v.2 FSmin=1.713

Safety Factors Are Calculated By The Simplified Janbu Method

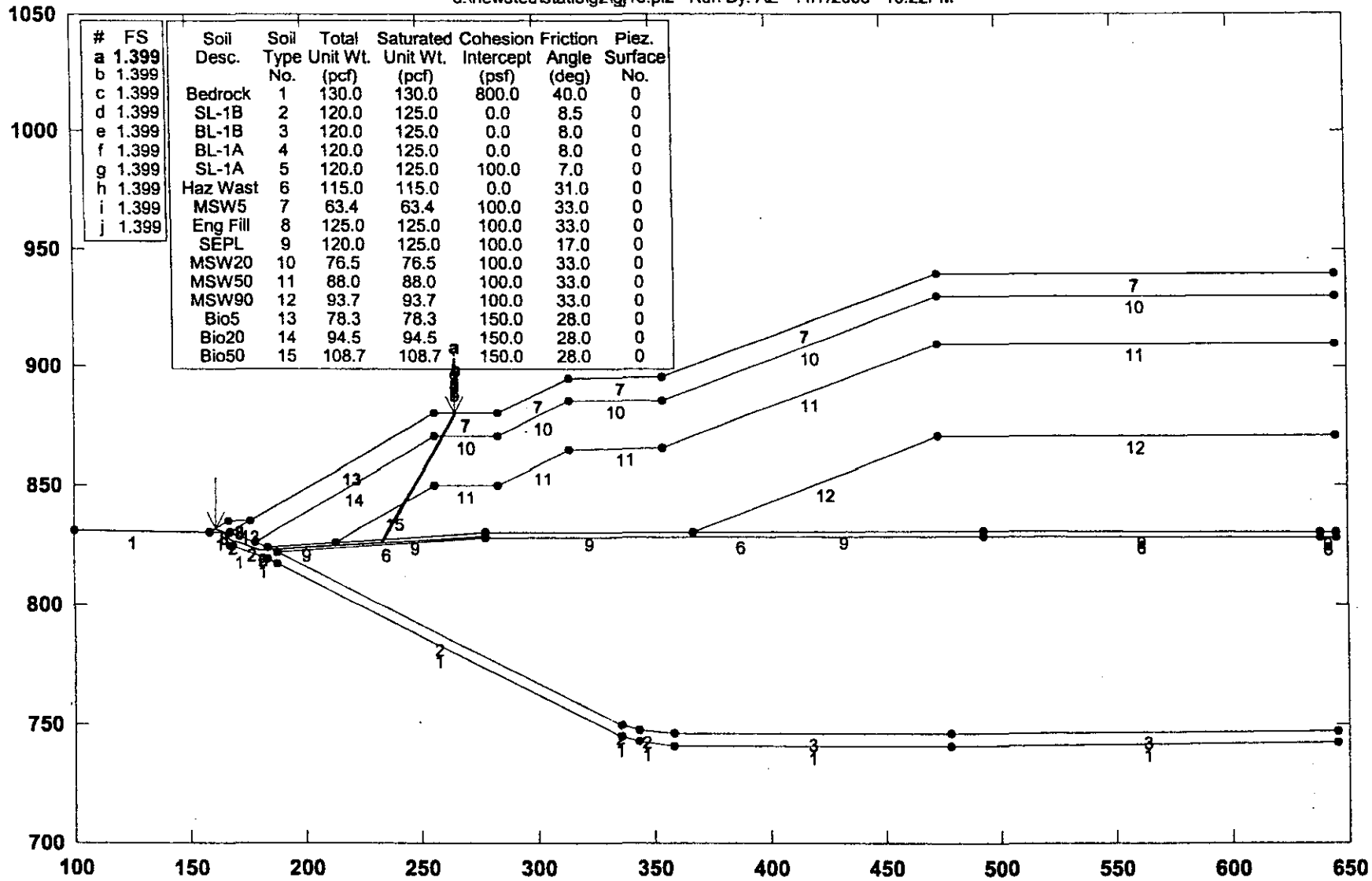
GSTABL7

KHF G-G' Static Janbu Block Search

d:\newsted\static\g2\gj13.pl2 Run By: AZ 11/7/2003 10:22PM

#	FS
a	1.399
b	1.399
c	1.399
d	1.399
e	1.399
f	1.399
g	1.399
h	1.399
i	1.399
j	1.399

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio5	13	78.3	78.3	150.0	28.0	0
Bio20	14	94.5	94.5	150.0	28.0	0
Bio50	15	108.7	108.7	150.0	28.0	0



GSTABL7 v.2 FSmin=1.399

Safety Factors Are Calculated By The Simplified Janbu Method

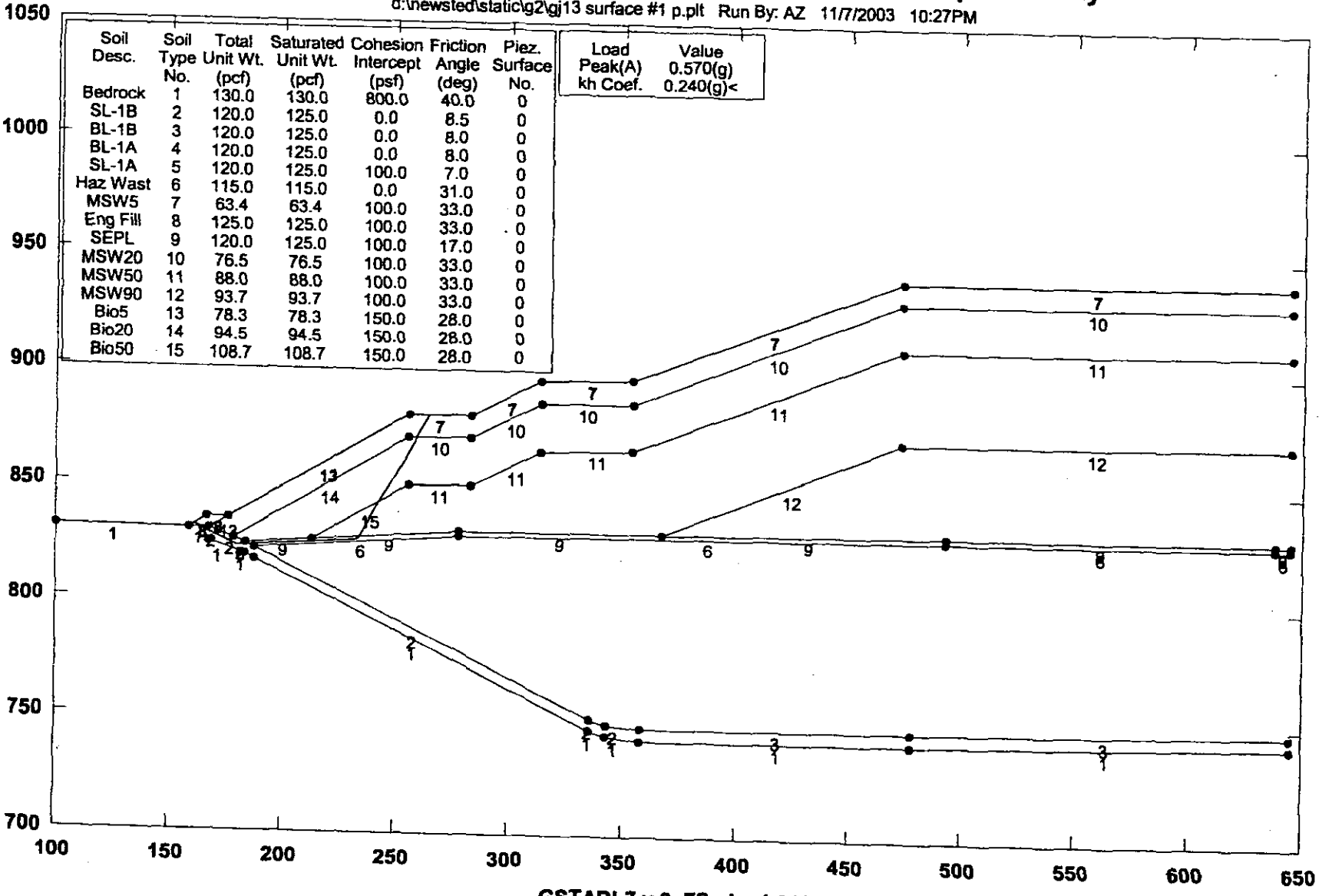
GSTABL7

KHF G-G' Failure Plane IV Spencer Pseudo-Static Slope Stability

d:\newsted\static\g2\gj13 surface #1 p.plt Run By: AZ 11/7/2003 10:27PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio5	13	78.3	78.3	150.0	28.0	0
Bio20	14	94.5	94.5	150.0	28.0	0
Bio50	15	108.7	108.7	150.0	28.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.240(g)<



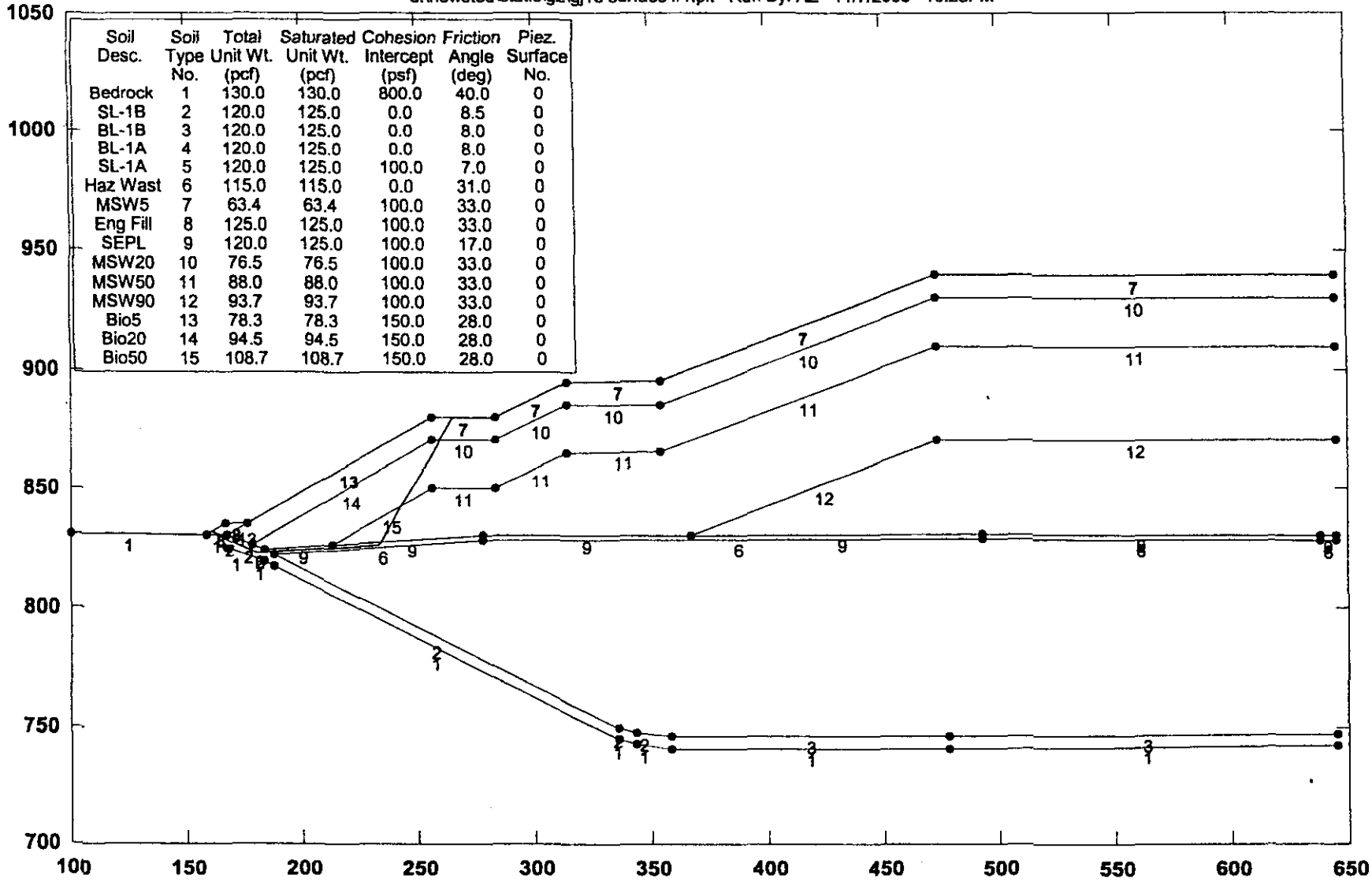
GSTABL7 v.2 FSmin=1.010

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

KHF G-G' Failure Plane IV Spencer Static Slope Stability

d:\newsted\static\g2\gj13 surface #1.plt Run By: AZ 11/7/2003 10:25PM



Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio5	13	78.3	78.3	150.0	28.0	0
Bio20	14	94.5	94.5	150.0	28.0	0
Bio50	15	108.7	108.7	150.0	28.0	0

GSTABL7 v.2 FSmin=1.696

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

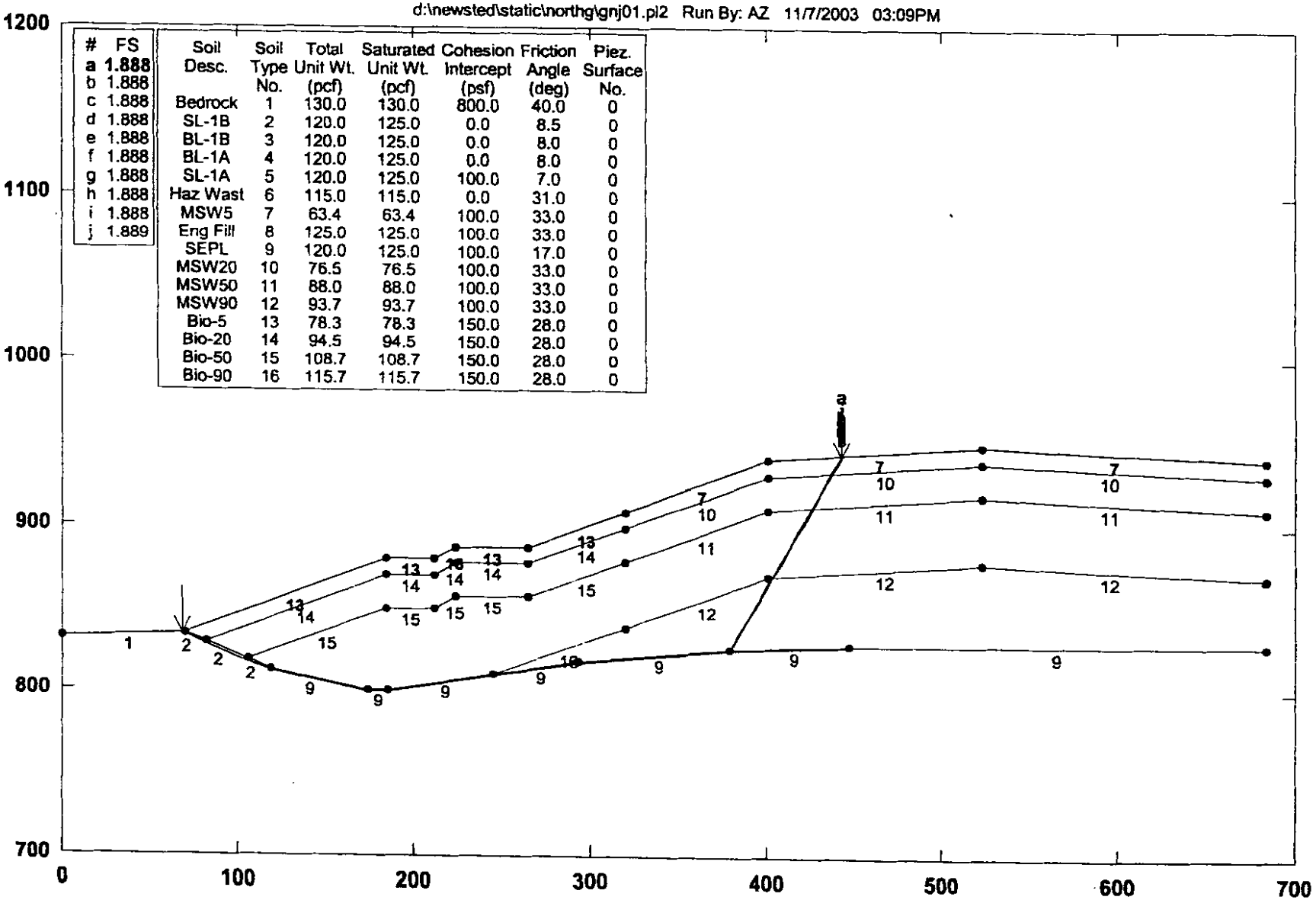
GSTABL7

KHF G-G-110 North Static Janbu Block Search

d:\newsted\static\northg\gnj01.pl2 Run By: AZ 11/7/2003 03:09PM

#	FS
a	1.888
b	1.888
c	1.888
d	1.888
e	1.888
f	1.888
g	1.888
h	1.888
i	1.888
j	1.889

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio-5	13	78.3	78.3	150.0	28.0	0
Bio-20	14	94.5	94.5	150.0	28.0	0
Bio-50	15	108.7	108.7	150.0	28.0	0
Bio-90	16	115.7	115.7	150.0	28.0	0



GSTABL7 v.2 FSmin=1.888

Safety Factors Are Calculated By The Simplified Janbu Method

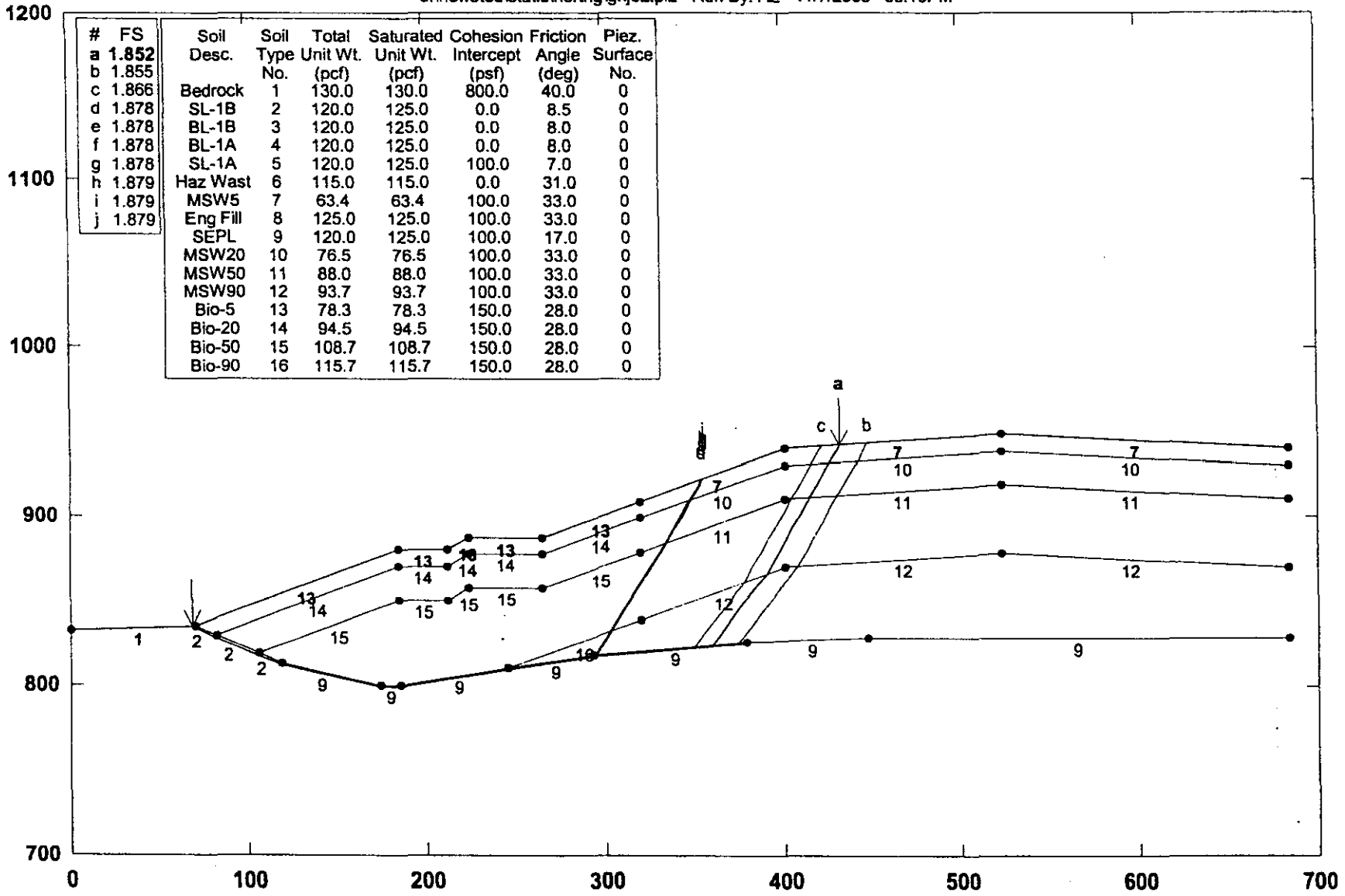
GSTABL7

KHF G-G-110 North Static Janbu Block Search

d:\newsted\static\northg\gnj02.pl2 Run By: AZ 11/7/2003 03:10PM

#	FS
a	1.852
b	1.855
c	1.866
d	1.878
e	1.878
f	1.878
g	1.878
h	1.879
i	1.879
j	1.879

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio-5	13	78.3	78.3	150.0	28.0	0
Bio-20	14	94.5	94.5	150.0	28.0	0
Bio-50	15	108.7	108.7	150.0	28.0	0
Bio-90	16	115.7	115.7	150.0	28.0	0



GSTABL7 v.2 FSmin=1.852

Safety Factors Are Calculated By The Simplified Janbu Method

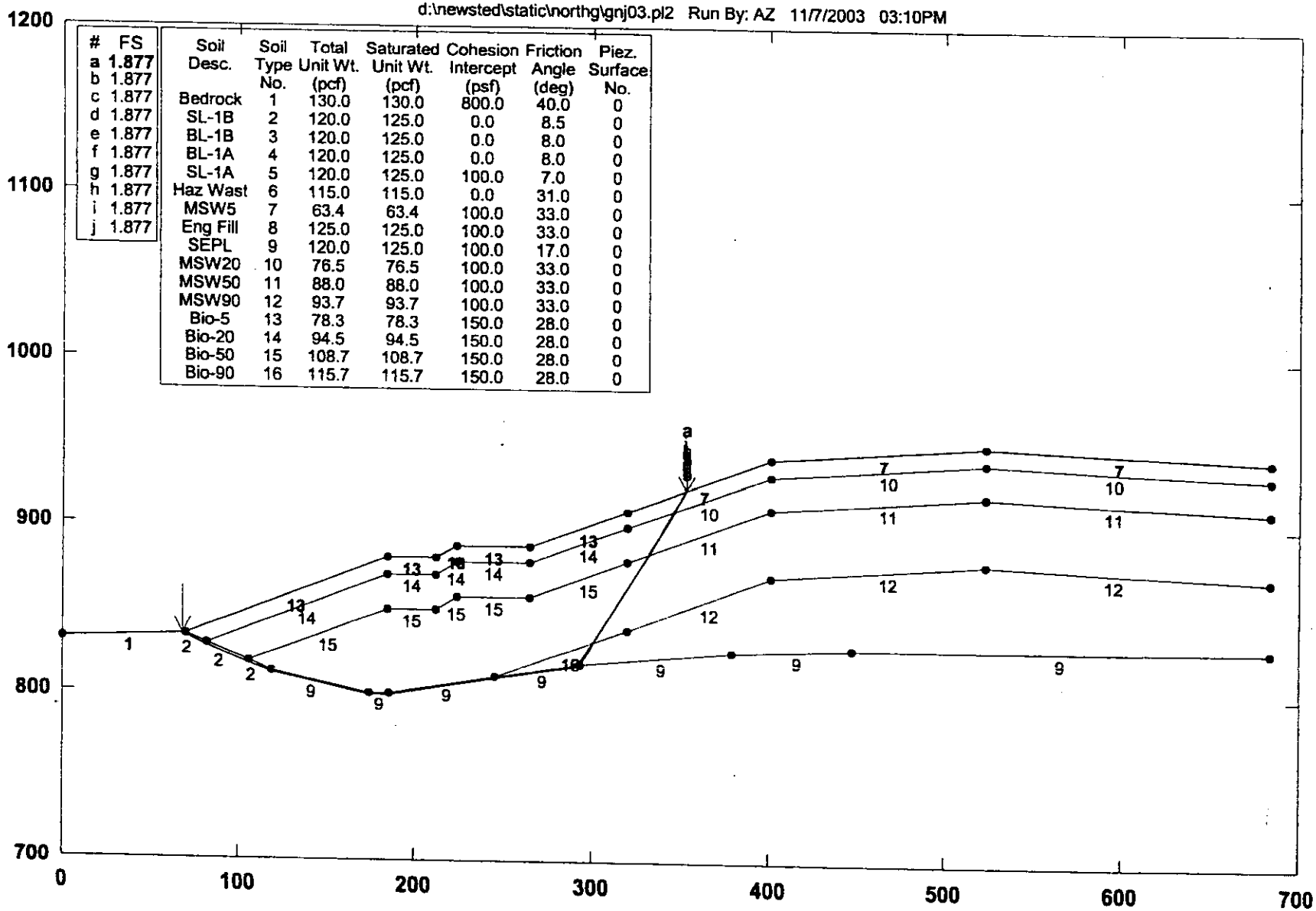
GSTABL7

KHF G-G-110 North Static Janbu Block Search

d:\newsted\static\northg\gnj03.pl2 Run By: AZ 11/7/2003 03:10PM

#	FS
a	1.877
b	1.877
c	1.877
d	1.877
e	1.877
f	1.877
g	1.877
h	1.877
i	1.877
j	1.877

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio-5	13	78.3	78.3	150.0	28.0	0
Bio-20	14	94.5	94.5	150.0	28.0	0
Bio-50	15	108.7	108.7	150.0	28.0	0
Bio-90	16	115.7	115.7	150.0	28.0	0



GSTABL7 v.2 FSmin=1.877

Safety Factors Are Calculated By The Simplified Janbu Method

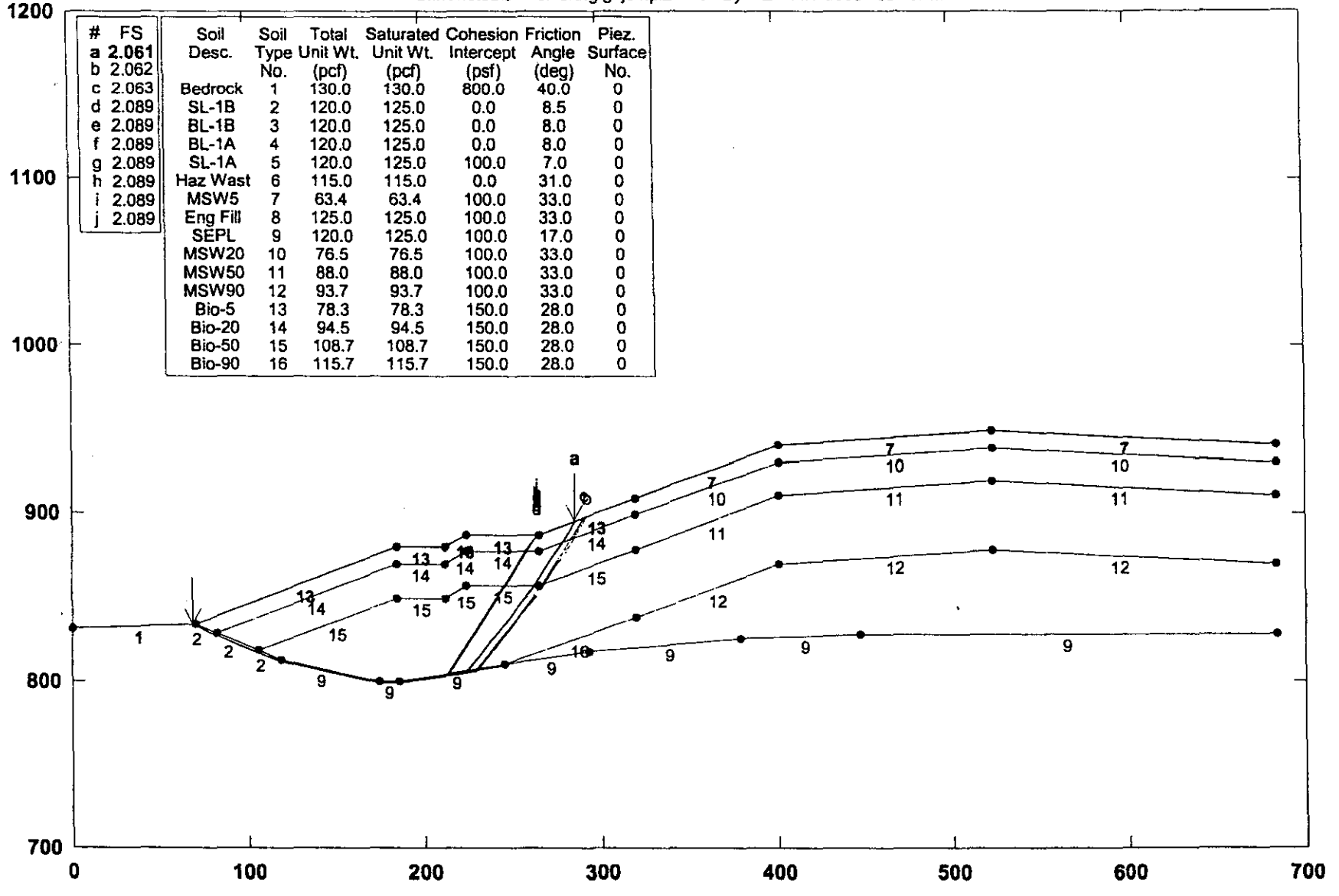
GSTABL7

KHF G-G-110 North Static Janbu Block Search

d:\newsted\static\northg\gnj04.pl2 Run By: AZ 11/7/2003 03:10PM

#	FS
a	**2.061**
b	2.062
c	2.063
d	2.089
e	2.089
f	2.089
g	2.089
h	2.089
i	2.089
j	2.089

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio-5	13	78.3	78.3	150.0	28.0	0
Bio-20	14	94.5	94.5	150.0	28.0	0
Bio-50	15	108.7	108.7	150.0	28.0	0
Bio-90	16	115.7	115.7	150.0	28.0	0



GSTABL7 v.2 FSmin=2.061

Safety Factors Are Calculated By The Simplified Janbu Method

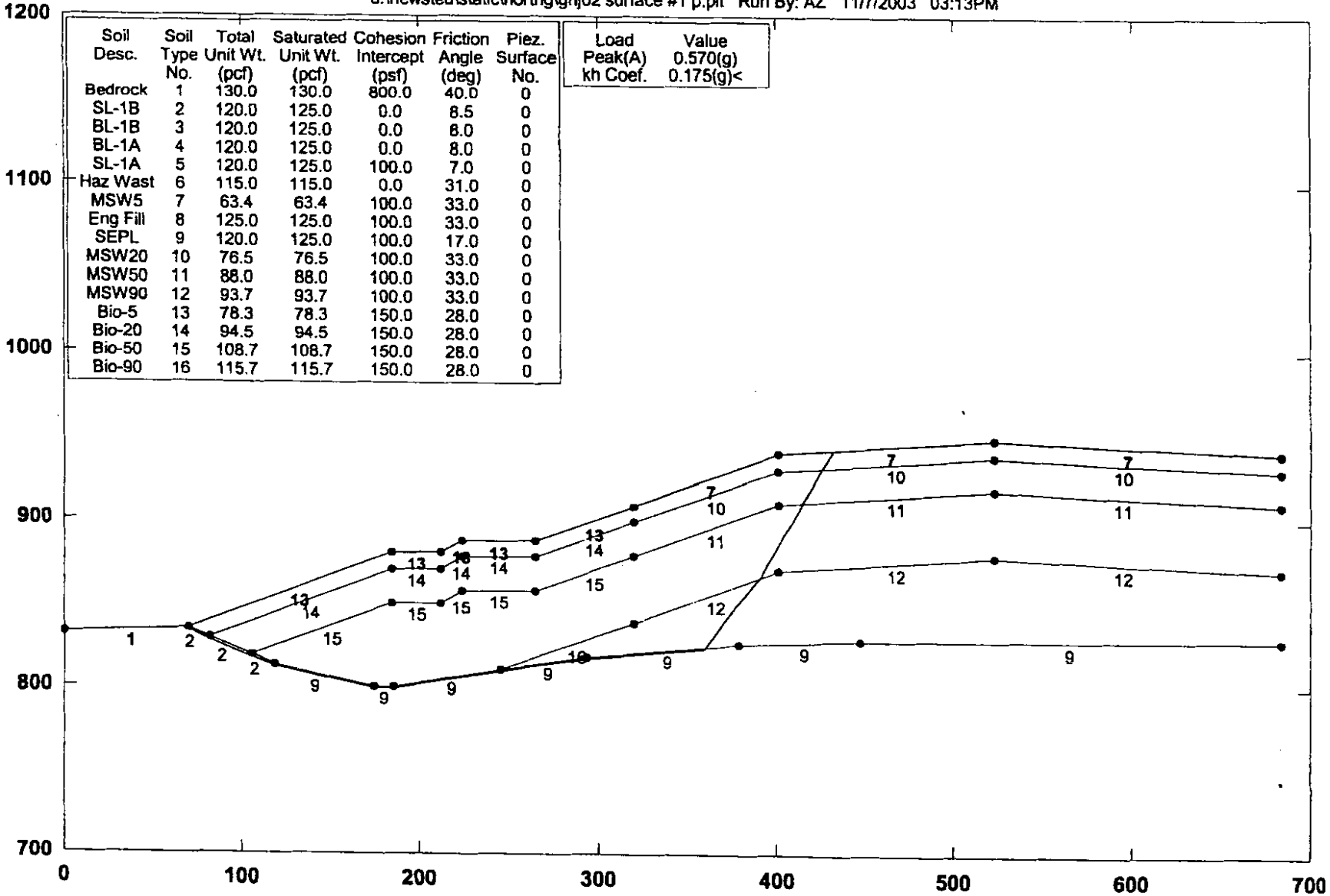
GSTABL7

KHF G-G-110 North Janbu Pseudo-Static Slope Stability

d:\newsted\static\northg\gnj02 surface #1 p.plt Run By: AZ 11/7/2003 03:13PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio-5	13	78.3	78.3	150.0	28.0	0
Bio-20	14	94.5	94.5	150.0	28.0	0
Bio-50	15	108.7	108.7	150.0	28.0	0
Bio-90	16	115.7	115.7	150.0	28.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.175(g)<



GSTABL7 v.2 FSmin=1.000

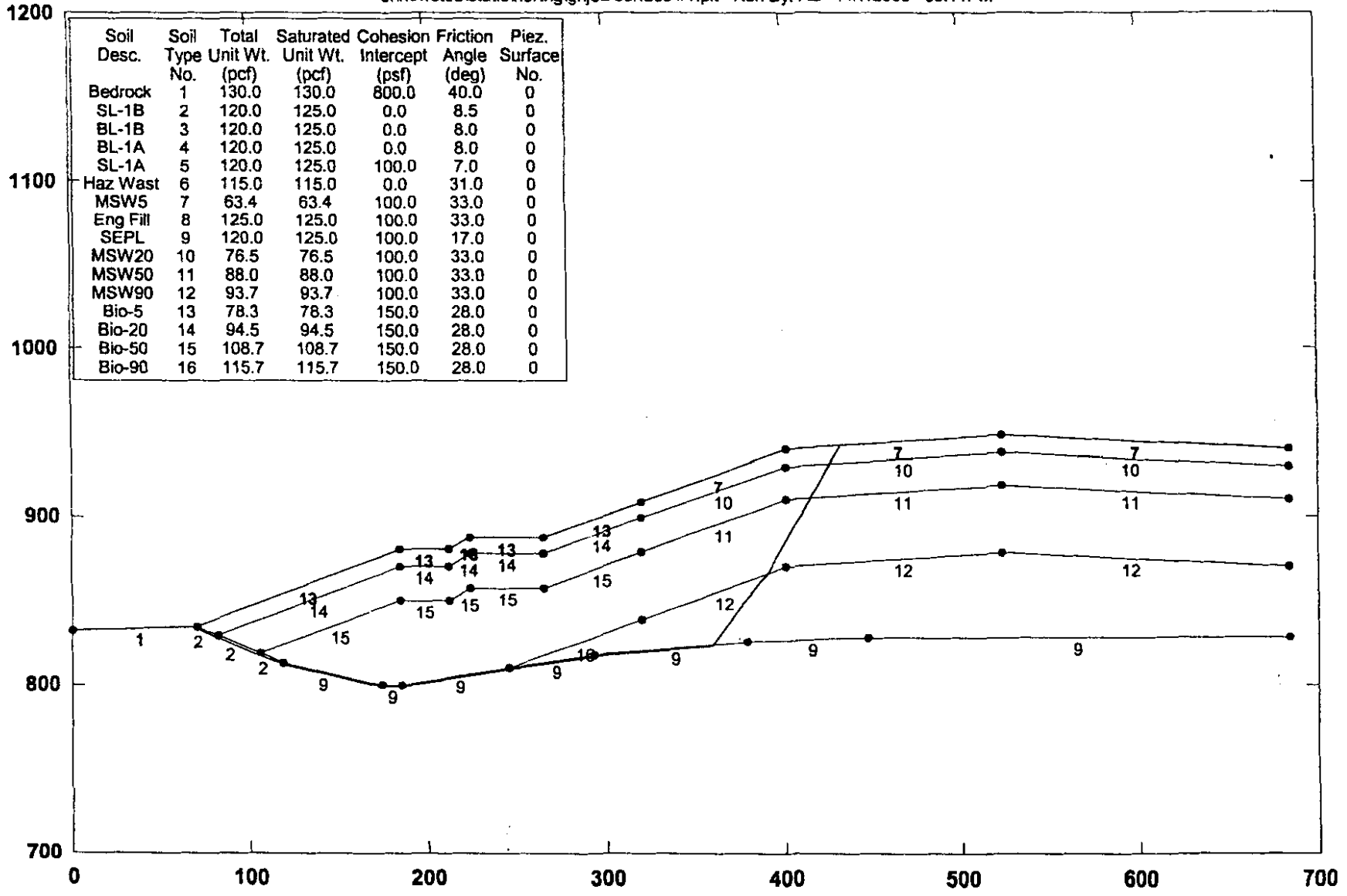
Factor Of Safety Is Calculated By The Simplified Janbu Method

GSTABL7

KHF G-G-110 North Spencer Static Slope Stability

d:\newsted\static\northg\gnj02 surface #1.plt Run By: AZ 11/7/2003 03:11PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0
Bio-5	13	78.3	78.3	150.0	28.0	0
Bio-20	14	94.5	94.5	150.0	28.0	0
Bio-50	15	108.7	108.7	150.0	28.0	0
Bio-90	16	115.7	115.7	150.0	28.0	0



GSTABL7 v.2 FSmin=2.124

Factor Of Safety Is Calculated By GLE (Spencer's) Method (0-2)

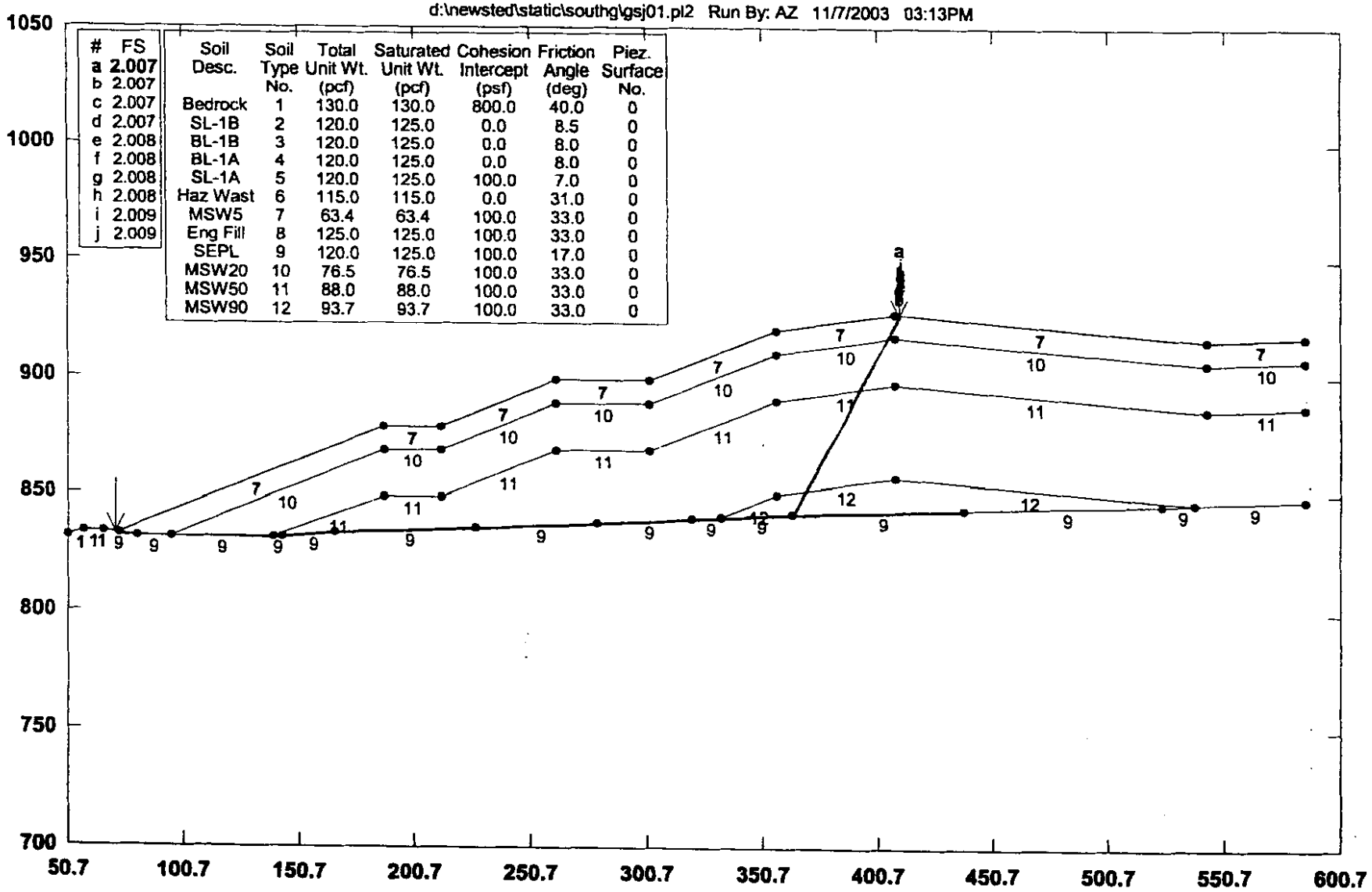
GSTABL7

KHF G-G-100 South Static Janbu Block Search

d:\newsted\static\southg\gsj01.pl2 Run By: AZ 11/7/2003 03:13PM

#	FS
a	2.007
b	2.007
c	2.007
d	2.007
e	2.008
f	2.008
g	2.008
h	2.008
i	2.009
j	2.009

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=2.007

Safety Factors Are Calculated By The Simplified Janbu Method

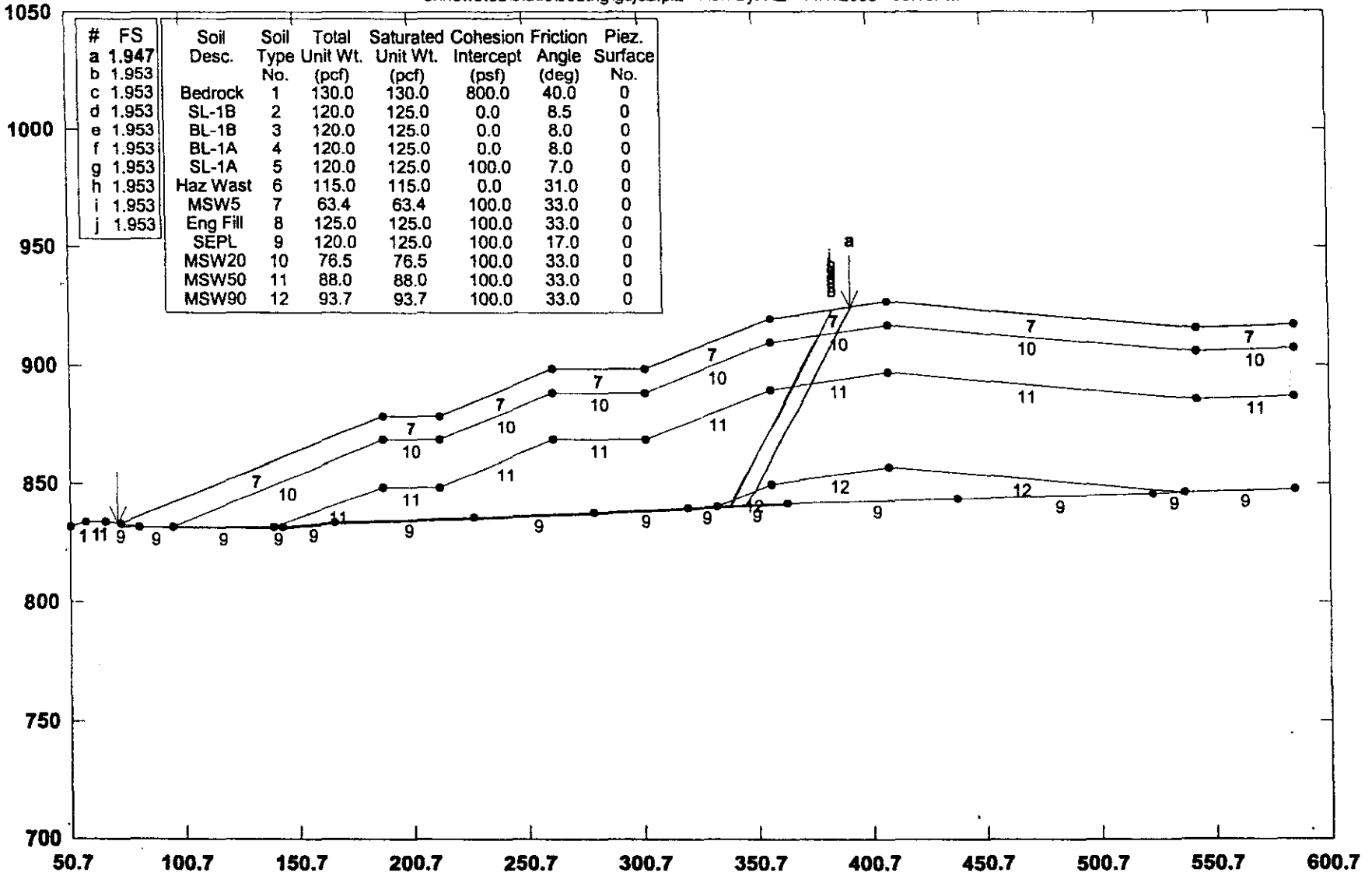
GSTABL7

KHF G-G-100 South Static Janbu Block Search

d:\newsted\static\southg\gsj02.pl2 Run By: AZ 11/7/2003 03:13PM

#	FS
a	1.947
b	1.953
c	1.953
d	1.953
e	1.953
f	1.953
g	1.953
h	1.953
i	1.953
j	1.953

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=1.947

Safety Factors Are Calculated By The Simplified Janbu Method

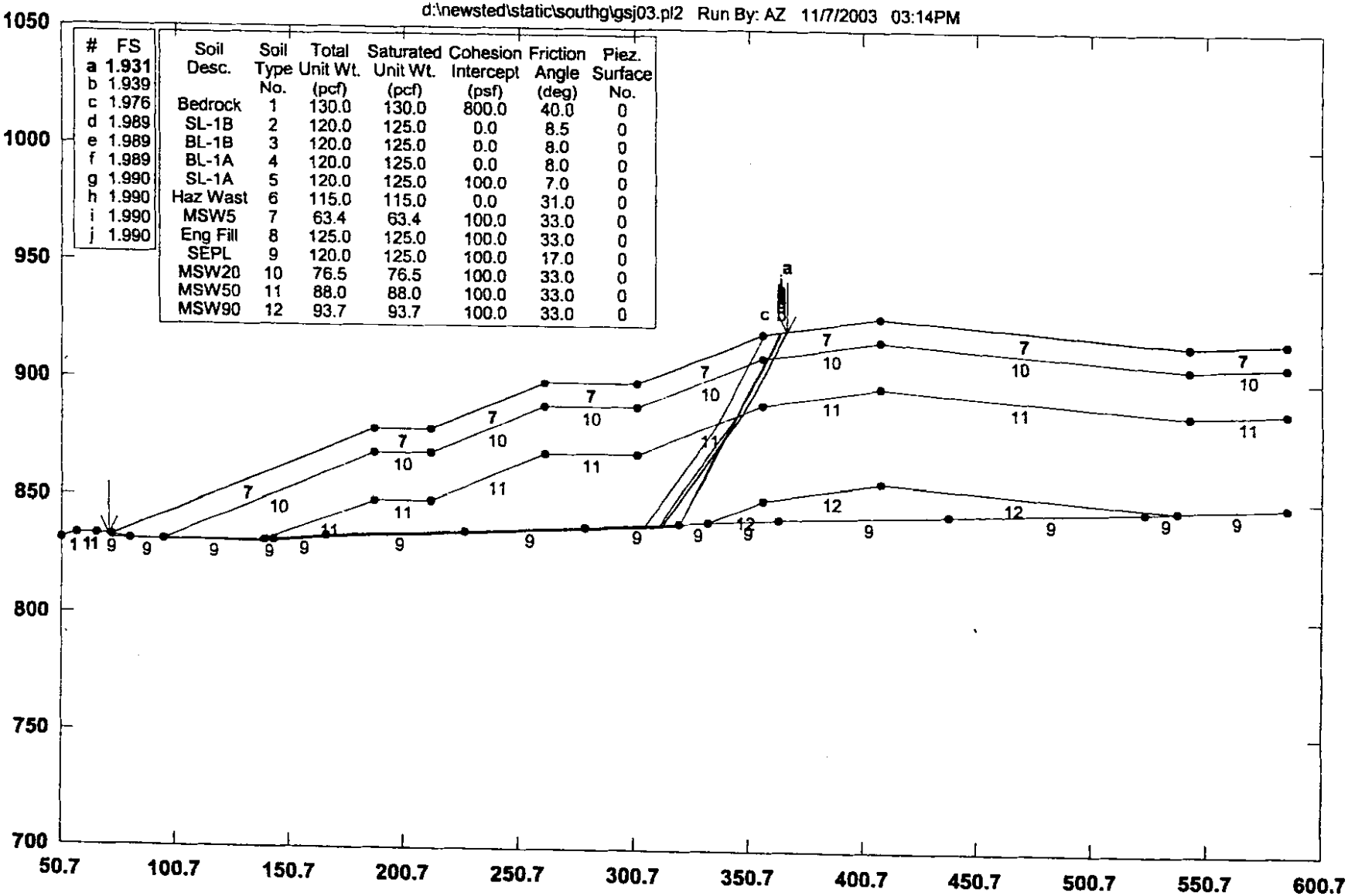
GSTABL7

KHF G-G-100 South Static Janbu Block Search

d:\newsted\static\southg\gsj03.pl2 Run By: AZ 11/7/2003 03:14PM

#	FS
a	1.931
b	1.939
c	1.976
d	1.989
e	1.989
f	1.989
g	1.990
h	1.990
i	1.990
j	1.990

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0



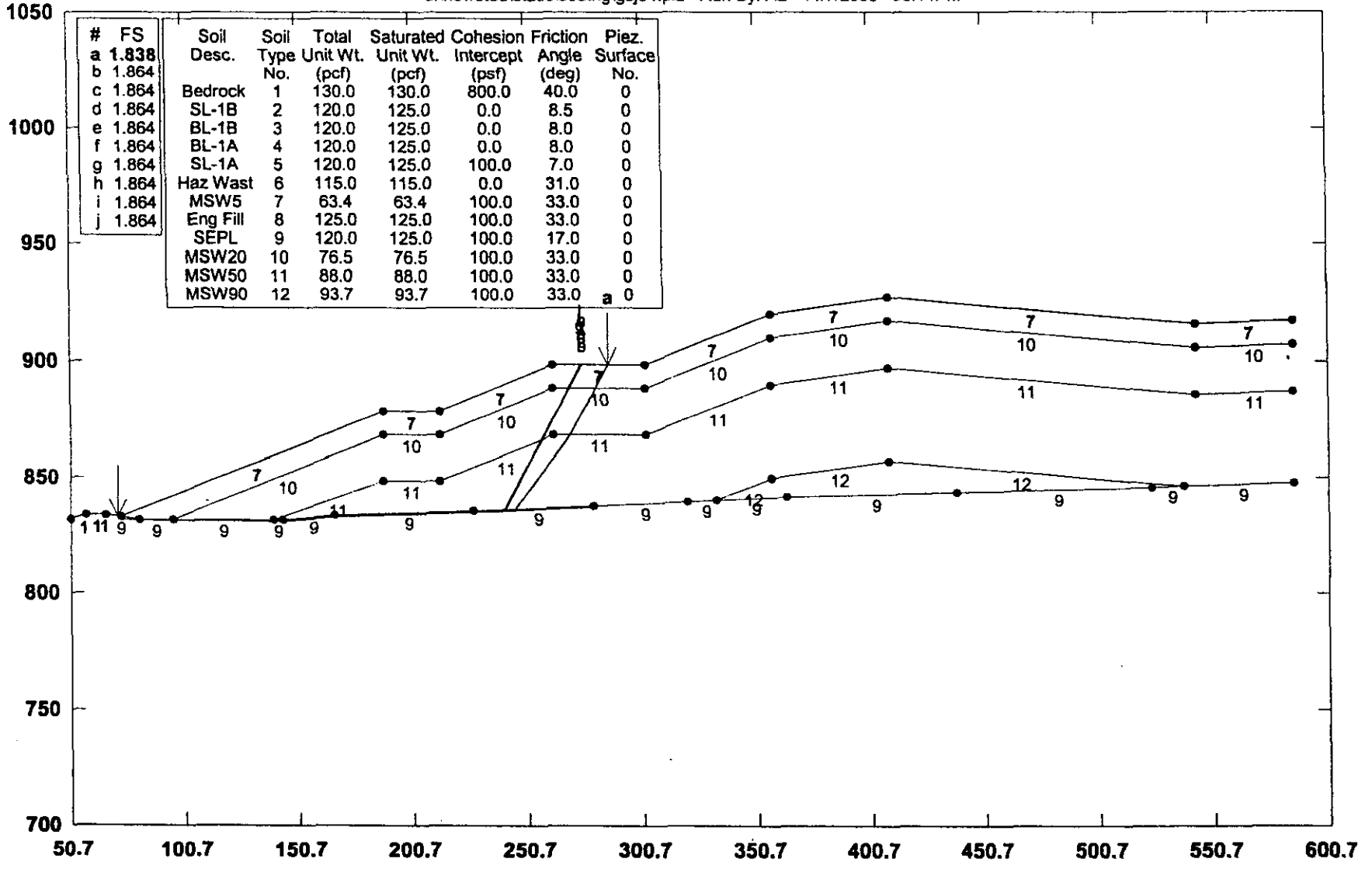
GSTABL7 v.2 FSmin=1.931

Safety Factors Are Calculated By The Simplified Janbu Method

GSTABL7

KHF G-G-100 South Static Janbu Block Search

d:\newsted\static\southg\gsj04.pl2 Run By: AZ 11/7/2003 03:14PM



#	FS
a	1.838
b	1.864
c	1.864
d	1.864
e	1.864
f	1.864
g	1.864
h	1.864
i	1.864
j	1.864

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0

GSTABL7 v.2 FSmin=1.838

Safety Factors Are Calculated By The Simplified Janbu Method

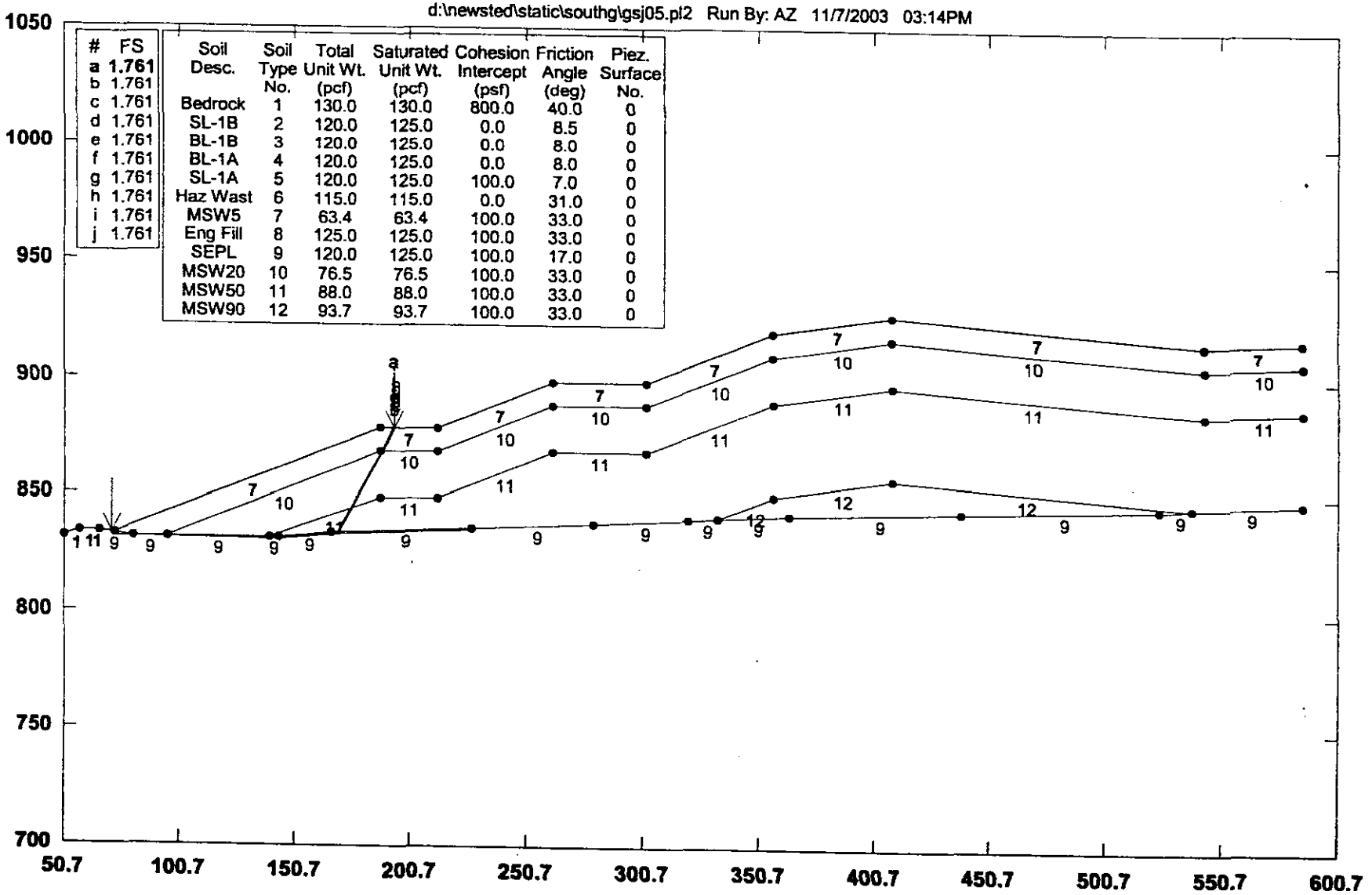
GSTABL7

KHF G-G-100 South Static Janbu Block Search

d:\newsted\static\southg\gsj05.pl2 Run By: AZ 11/7/2003 03:14PM

#	FS
a	1.761
b	1.761
c	1.761
d	1.761
e	1.761
f	1.761
g	1.761
h	1.761
i	1.761
j	1.761

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=1.761

Safety Factors Are Calculated By The Simplified Janbu Method

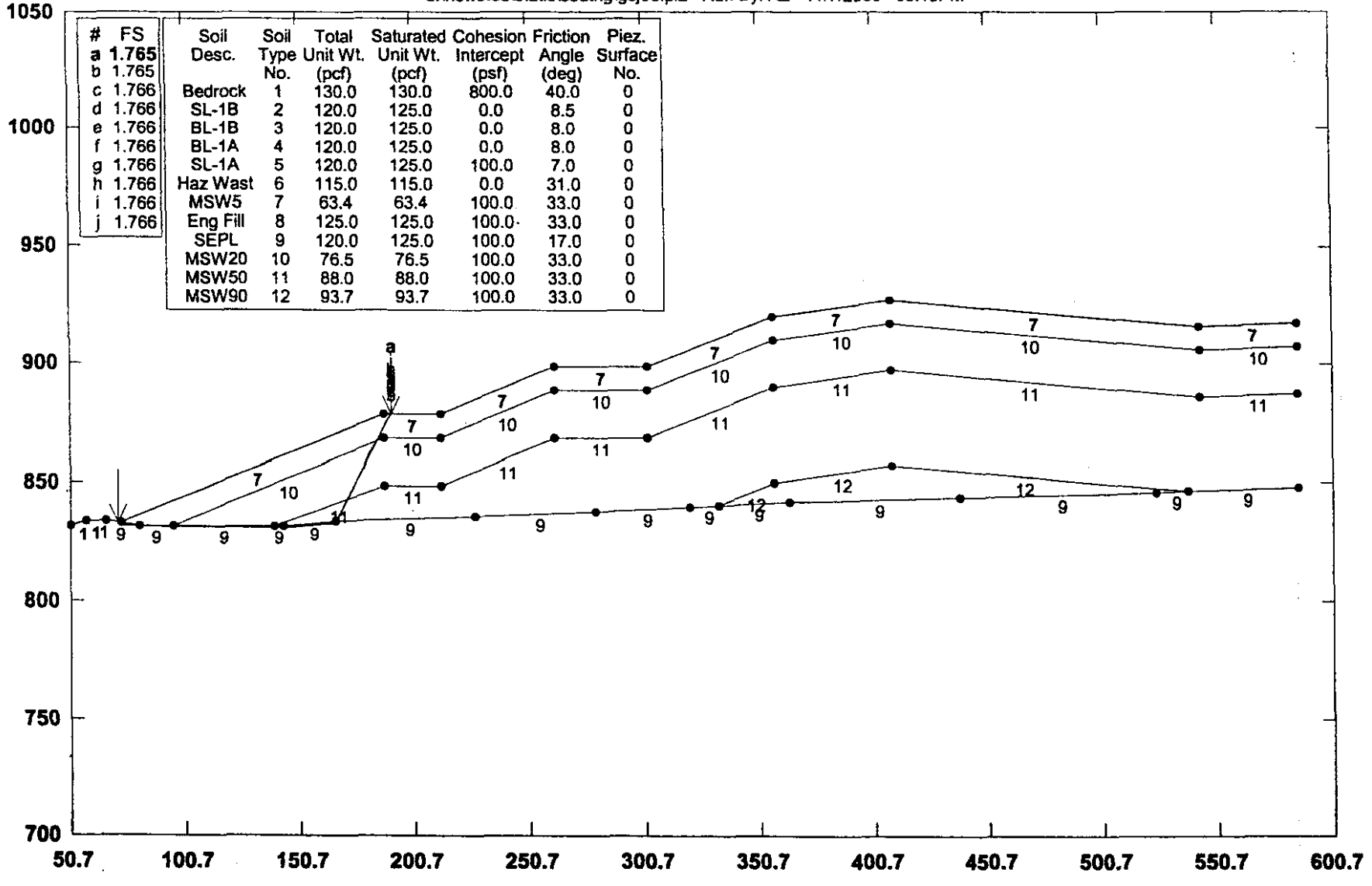
GSTABL7

KHF G-G-100 South Static Janbu Block Search

d:\newsted\static\southg\gsj06.pl2 Run By: AZ 11/7/2003 03:15PM

#	FS
a	1.765
b	1.765
c	1.766
d	1.766
e	1.766
f	1.766
g	1.766
h	1.766
i	1.766
j	1.766

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0



GSTABL7 v.2 FSmin=1.765

Safety Factors Are Calculated By The Simplified Janbu Method

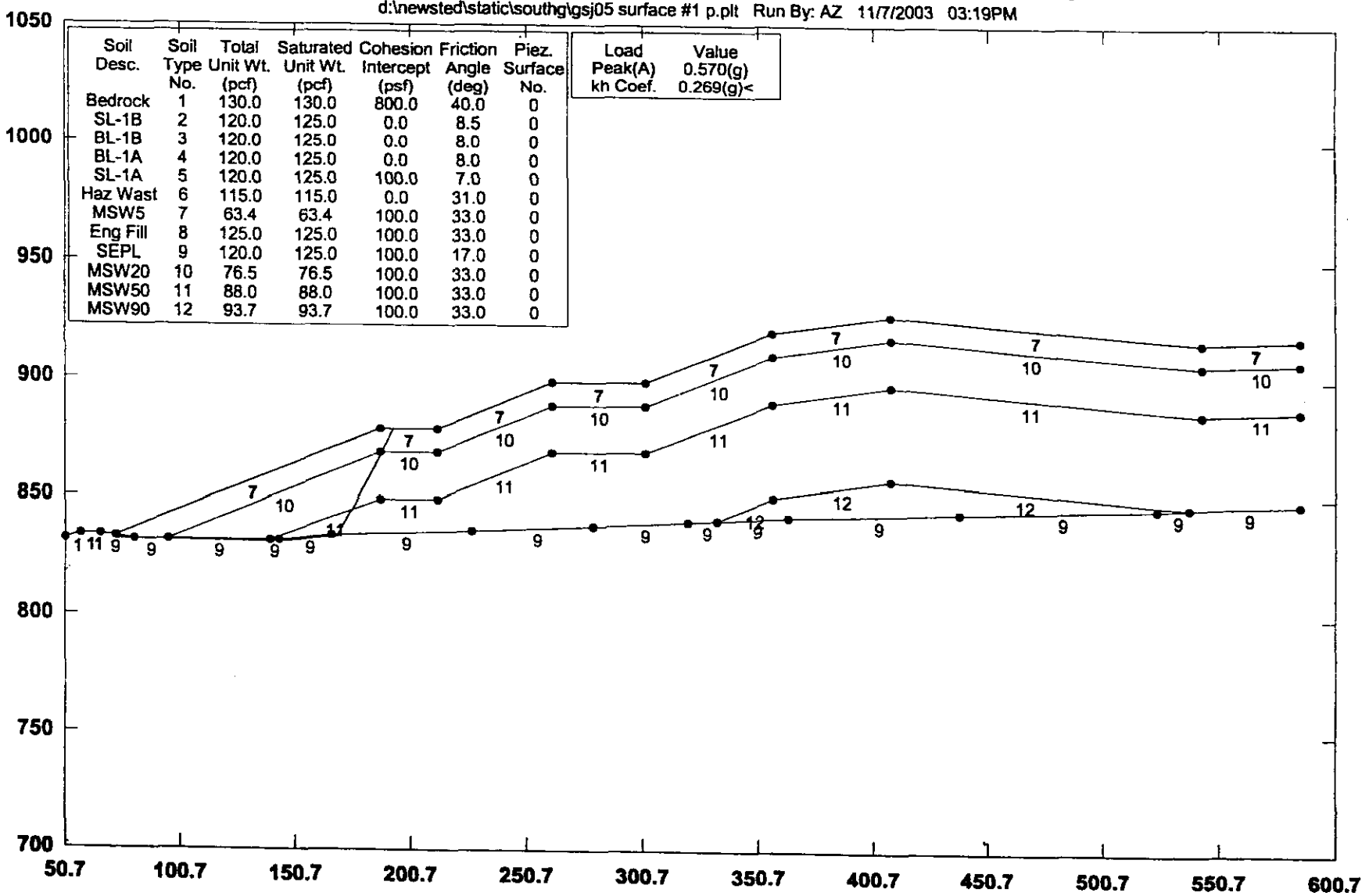
GSTABL7

KHF G-G-100 South Spencer Pseudo-Static Slope Stability

d:\newsted\static\southg\gsj05 surface #1 p.plt Run By: AZ 11/7/2003 03:19PM

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0

Load	Value
Peak(A)	0.570(g)
kh Coef.	0.269(g)<



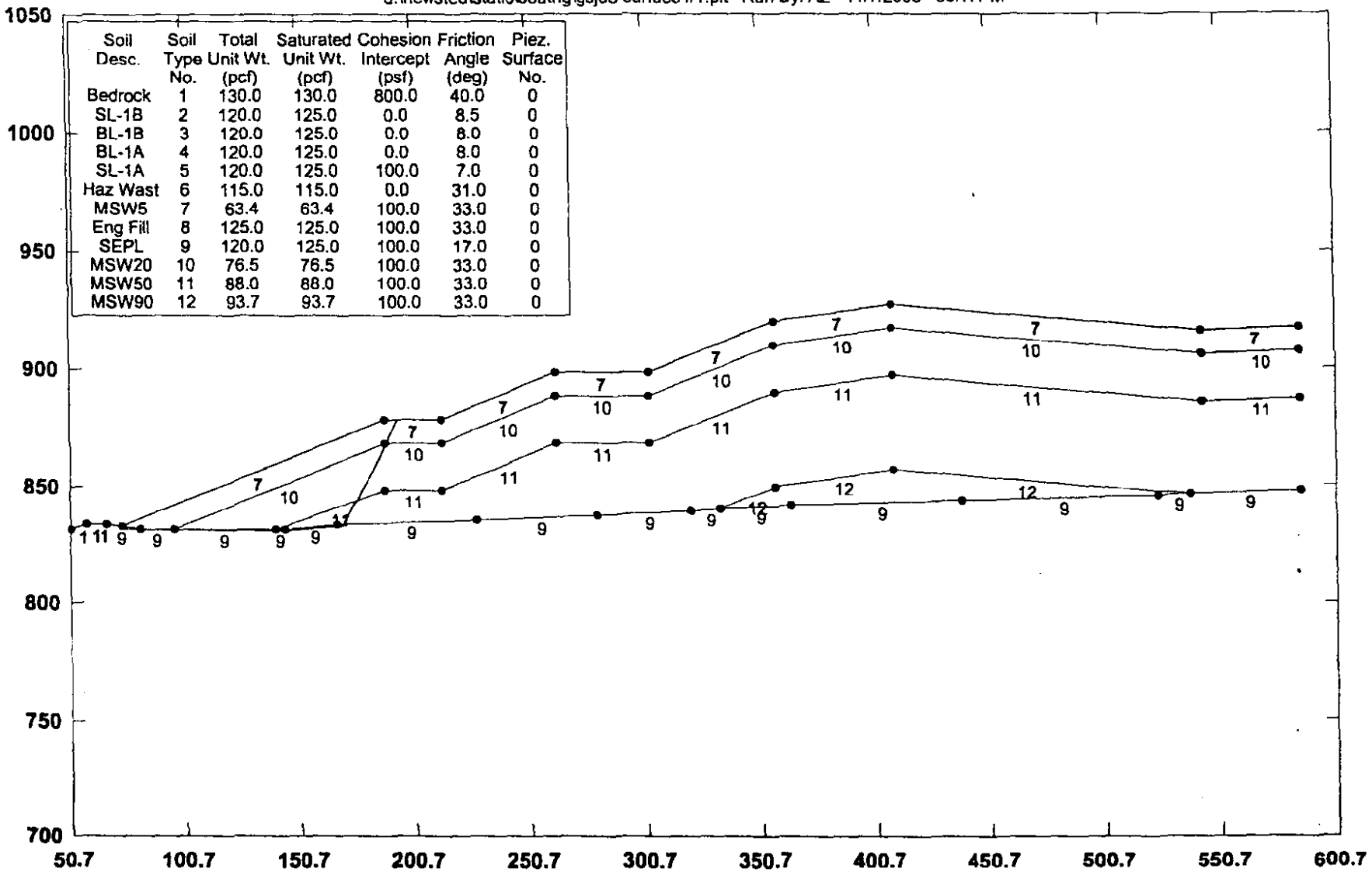
GSTABL7 v.2 FSmin=1.038

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7

KHF G-G-100 South Spencer Static Slope Stability

d:\newsted\static\southg\gsj05 surface #1.plt Run By: AZ 11/7/2003 03:17PM



Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Bedrock	1	130.0	130.0	800.0	40.0	0
SL-1B	2	120.0	125.0	0.0	8.5	0
BL-1B	3	120.0	125.0	0.0	8.0	0
BL-1A	4	120.0	125.0	0.0	8.0	0
SL-1A	5	120.0	125.0	100.0	7.0	0
Haz Wast	6	115.0	115.0	0.0	31.0	0
MSW5	7	63.4	63.4	100.0	33.0	0
Eng Fill	8	125.0	125.0	100.0	33.0	0
SEPL	9	120.0	125.0	100.0	17.0	0
MSW20	10	76.5	76.5	100.0	33.0	0
MSW50	11	88.0	88.0	100.0	33.0	0
MSW90	12	93.7	93.7	100.0	33.0	0

GSTABL7 v.2 FSmin=2.113

Factor Of Safety Is Calculated By GLE (Spencer`s) Method (0-2)

GSTABL7