

**“ESTUDIO Y DISEÑO DEFINITIVO DE LA VÍA
SAN ANTONIO – SAN MIGUEL, EN LOS
CANTONES GUAYAQUIL Y PLAYAS, DE LA
PROVINCIA DEL GUAYAS”**

TALUDES Y TERRAPLENES

ANEXO: ANALISIS ESTABILIDAD ESTRIBO DERECHO

ABSCISA Km 7+245



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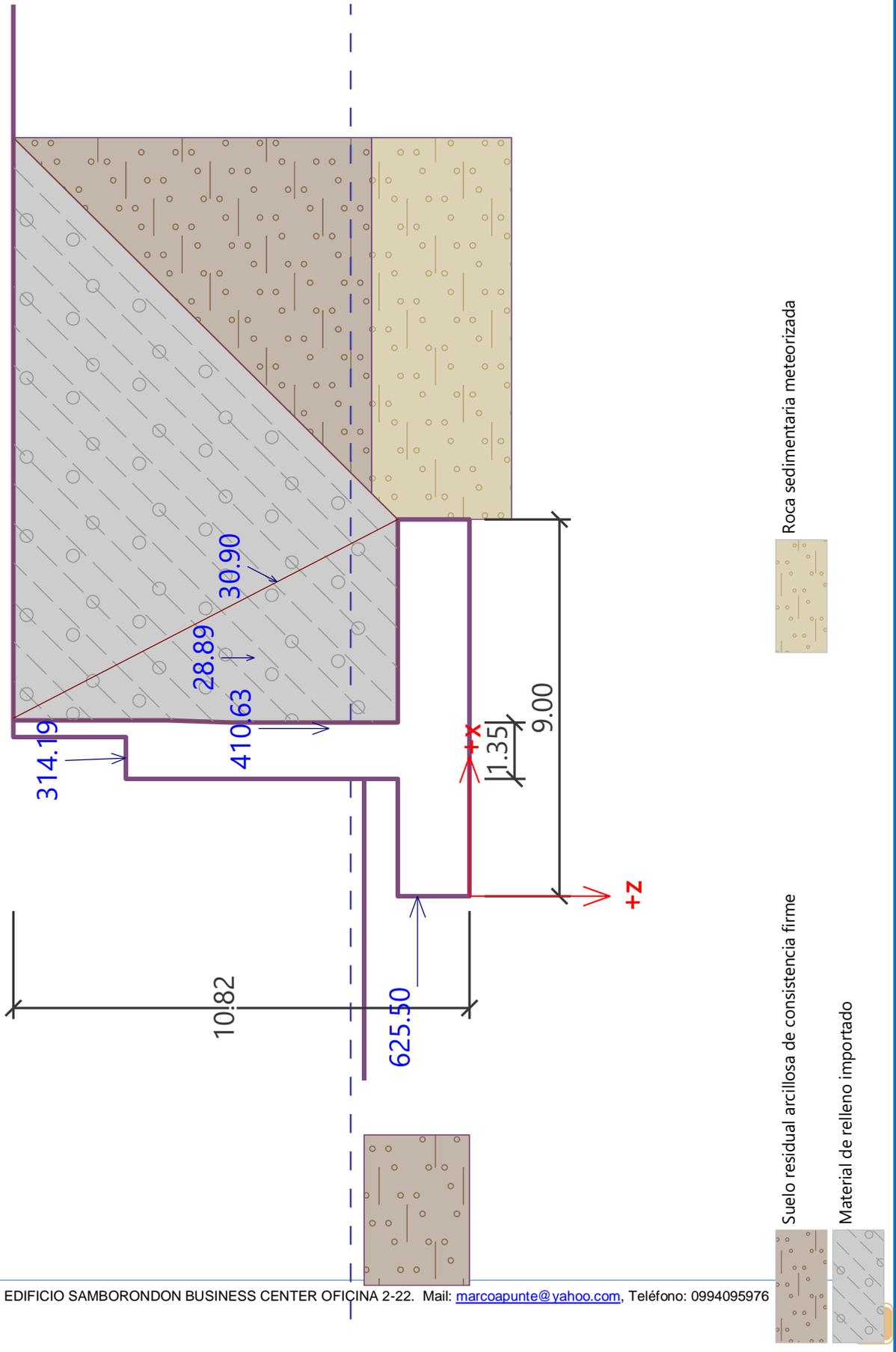
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Name :

Stage - analysis : 1 - 1





Name :	Stage - analysis : 1 - 1
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Slope stability analysis

Input data

Project

Settings

USA - LRFD

Stability analysis

Verification methodology : according to LRFD

Earthquake analysis : Standard

Load factors			
Design situation - Service I			
		Minimum	Maximum
Earth surcharge load (permanent) :	ES =	1.00 [-]	1.00 [-]
Live load surcharge :	LL =	0.00 [-]	1.00 [-]

Resistance factors			
Design situation - Service I			
Resistance factor on stability :	$\phi_{SS} =$	0.65 [-]	

Interface

No.	Interface location	Coordinates of interface points [m]					
		x	z	x	z	x	z
1		-1.40	6.65	-0.05	6.65	0.00	8.15
		0.00	9.15	0.00	11.82		
2		-27.05	3.50	-1.40	3.50	-1.40	6.65
		-1.40	9.15	-0.40	9.15	-0.40	11.82
		0.00	11.82	13.92	11.82	32.46	11.82



No.	Interface location	Coordinates of interface points [m]					
		x	z	x	z	x	z
3		-4.20	1.00	4.80	1.00	4.80	2.70
		5.42	3.32	13.92	11.82		
4		-0.05	6.65	-0.05	2.70	4.80	2.70
5		-27.05	1.00	-4.20	1.00	-4.20	2.70
		-1.40	2.70	-1.40	3.50		
6		5.42	3.32	32.46	3.32		

Soil parameters - effective stress state

No.	Name	Pattern	Φ_{ef} [°]	C_{ef} [kPa]	γ [kN/m ³]
1	Roca sedimentaria meteorizada		32.00	200.00	20.00
2	Material de relleno importado		35.00	8.00	18.60

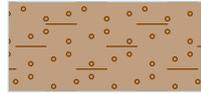
Soil parameters - uplift

No.	Name	Pattern	γ_{sat} [kN/m ³]	γ_s [kN/m ³]	n [-]
1	Roca sedimentaria meteorizada		21.00		



No.	Name	Pattern	γ_{sat} [kN/m ³]	γ_s [kN/m ³]	n [-]
2	Material de relleno importado		19.00		

Soil parameters - total stress state

No.	Name	Pattern	c_u [kPa]	γ [kN/m ³]
1	Suelo residual arcillosa de consistencia firme		190.00	20.00

Soil parameters

Suelo residual arcillosa de consistencia firme

Unit weight : $\gamma = 20.00$ kN/m³

Stress-state : total

Cohesion of soil : $c_u = 190.00$ kPa

Roca sedimentaria meteorizada

Unit weight : $\gamma = 20.00$ kN/m³

Stress-state : effective

Angle of internal friction : $\varphi_{ef} = 32.00^\circ$

Cohesion of soil : $c_{ef} = 200.00$ kPa

Saturated unit weight : $\gamma_{sat} = 21.00$ kN/m³

Material de relleno importado

Unit weight : $\gamma = 18.60$ kN/m³

Stress-state : effective

Angle of internal friction : $\varphi_{ef} = 35.00^\circ$

Cohesion of soil : $c_{ef} = 8.00$ kPa

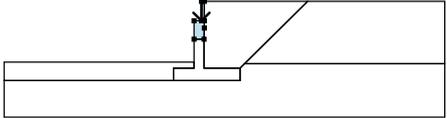
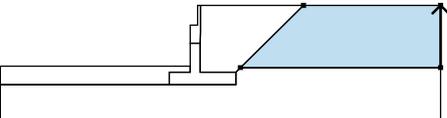
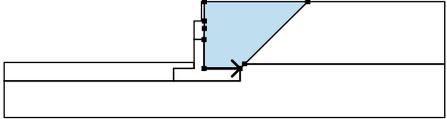
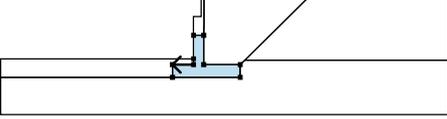
Saturated unit weight : $\gamma_{sat} = 19.00$ kN/m³

Rigid Bodies



No.	Name	Sample	Y [kN/m ³]
1	Material of structure		23.00

Assigning and surfaces

No.	Surface position	Coordinates of surface points [m]				Assigned soil
		x	z	x	z	
1		-0.40	11.82	-0.40	9.15	Material of structure
		-1.40	9.15	-1.40	6.65	
		-0.05	6.65	0.00	8.15	
		0.00	9.15	0.00	11.82	
2		32.46	3.32	32.46	11.82	Suelo residual arcillosa de consistencia firme
		13.92	11.82	5.42	3.32	
3		-0.05	2.70	4.80	2.70	Material de relleno importado
		5.42	3.32	13.92	11.82	
		0.00	11.82	0.00	9.15	
		0.00	8.15	-0.05	6.65	
4		-1.40	2.70	-4.20	2.70	Material of structure
		-4.20	1.00	4.80	1.00	
		4.80	2.70	-0.05	2.70	
		-0.05	6.65	-1.40	6.65	
		-1.40	3.50			



No.	Surface position	Coordinates of surface points [m]				Assigned soil
		x	z	x	z	
5		-4.20	1.00	-4.20	2.70	Suelo residual arcillosa de consistencia firme
		-1.40	2.70	-1.40	3.50	
		-27.05	3.50	-27.05	1.00	
6		5.42	3.32	4.80	2.70	Roca sedimentaria meteorizada
		4.80	1.00	-4.20	1.00	
		-27.05	1.00	-27.05	-4.00	
		32.46	-4.00	32.46	3.32	

Surcharge

No.	Type	Type of action	Location z [m]	Origin x [m]	Length l [m]	Width b [m]	Slope α [°]	Magnitude		
								q, q ₁ , f, F, x	q ₂ , z	unit
1	line	permanent	z = 9.15	x = -0.90			-2.30	300.02		kN/m

Surcharges

No.	Name
1	Bridge

Water

Water type : GWT

No.	GWT location	Coordinates of GWT points [m]					
		x	z	x	z	x	z
1		-27.05	3.82	-0.05	3.82	32.46	3.82

Tensile crack



Tensile crack not input.

Earthquake

Earthquake not included.

Settings of the stage of construction

Design situation : Service I

Results (Stage of construction 1)

Analysis 1 (stage 1)

Circular slip surface

Slip surface parameters					
Center :	x =	-3.63 [m]	Angles :	$\alpha_1 =$	-52.20 [°]
	z =	11.97 [m]		$\alpha_2 =$	89.38 [°]
Radius :	R =	13.82 [m]			
The slip surface after optimization.					

Slope stability verification (Morgenstern-Price)

Utilization : 19.7 %

CDR CDR: 5.072

Slope stability ACCEPTABLE

Optimization of circular slip surface (Morgenstern-Price)

No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
1	-5.71	67.67	67.59	12.2 %	ACCEPTABLE
2	-5.71	67.67	67.59	12.2 %	ACCEPTABLE
3	3.77	35.01	36.74	13.9 %	ACCEPTABLE
4	12.06	17.99	21.12	1.7 %	ACCEPTABLE
5	1.35	17.32	31.40	13.9 %	ACCEPTABLE
6	5.05	27.95	31.63	13.8 %	ACCEPTABLE
7	1.72	14.64	30.67	13.2 %	ACCEPTABLE
8	1.86	13.64	30.45	12.8 %	ACCEPTABLE
9	-0.07	19.49	21.90	16.5 %	ACCEPTABLE
10	11.75	19.48	21.90	1.6 %	ACCEPTABLE
11	1.35	17.31	31.40	13.9 %	ACCEPTABLE
12	-61.63	465.11	462.91	2.4 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
13	-0.07	19.49	21.90	16.5 %	ACCEPTABLE
14	0.79	12.18	11.77	2.5 %	ACCEPTABLE
15	-24.31	174.05	170.56	3.2 %	ACCEPTABLE
16	-8.52	89.14	85.65	4.1 %	ACCEPTABLE
17	-2.14	37.48	39.83	15.1 %	ACCEPTABLE
18	-1.03	30.65	34.87	15.6 %	ACCEPTABLE
19	7.81	19.49	21.90	7.9 %	ACCEPTABLE
20	1.07	17.72	27.89	14.8 %	ACCEPTABLE
21	-13.25	42.09	39.78	2.8 %	ACCEPTABLE
22	-8.88	35.10	31.64	2.5 %	ACCEPTABLE
23	-7.95	19.49	21.90	7.7 %	ACCEPTABLE
24	-6.89	14.98	19.71	17.0 %	ACCEPTABLE
25	-15.10	75.31	72.77	2.6 %	ACCEPTABLE
26	-5.55	42.88	40.50	1.6 %	ACCEPTABLE
27	-5.93	23.15	28.70	16.4 %	ACCEPTABLE
28	0.99	14.98	19.71	15.5 %	ACCEPTABLE
29	-15.73	25.29	24.46	2.0 %	ACCEPTABLE
30	-9.69	18.35	15.78	2.1 %	ACCEPTABLE
31	-12.32	12.34	17.01	4.1 %	ACCEPTABLE
32	1.38	13.31	19.12	14.8 %	ACCEPTABLE
33	-6.89	14.98	19.71	17.0 %	ACCEPTABLE
34	-6.98	13.09	14.35	3.7 %	ACCEPTABLE
35	-4.60	27.64	27.44	2.3 %	ACCEPTABLE
36	-1.64	14.98	19.71	16.6 %	ACCEPTABLE
37	-5.62	13.59	23.51	15.0 %	ACCEPTABLE
38	-13.31	22.21	23.09	2.1 %	ACCEPTABLE
39	-8.08	16.39	16.06	1.6 %	ACCEPTABLE
40	-11.34	14.12	18.79	4.7 %	ACCEPTABLE
41	-11.00	12.73	18.34	5.3 %	ACCEPTABLE
42	-7.30	22.59	27.33	16.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
43	-1.53	14.55	19.55	16.5 %	ACCEPTABLE
44	-6.89	14.98	19.71	17.0 %	ACCEPTABLE
45	-3.11	13.81	19.28	16.5 %	ACCEPTABLE
46	-7.10	14.27	16.35	4.6 %	ACCEPTABLE
47	-9.52	29.84	31.29	4.6 %	ACCEPTABLE
48	-5.05	22.09	23.49	17.5 %	ACCEPTABLE
49	-1.52	21.97	23.41	17.1 %	ACCEPTABLE
50	-9.78	49.12	47.47	2.1 %	ACCEPTABLE
51	-6.23	30.95	32.13	16.2 %	ACCEPTABLE
52	0.12	14.97	19.71	16.1 %	ACCEPTABLE
53	-5.57	27.59	29.68	16.6 %	ACCEPTABLE
54	-1.55	22.09	23.49	17.1 %	ACCEPTABLE
55	-4.19	20.53	25.31	16.9 %	ACCEPTABLE
56	-4.11	16.01	17.20	11.9 %	ACCEPTABLE
57	-10.74	31.43	30.47	2.0 %	ACCEPTABLE
58	-8.55	22.09	23.49	3.1 %	ACCEPTABLE
59	-4.62	12.29	17.20	16.8 %	ACCEPTABLE
60	-7.47	17.48	20.83	17.5 %	ACCEPTABLE
61	-3.75	16.57	20.39	17.3 %	ACCEPTABLE
62	-7.83	16.79	17.62	3.0 %	ACCEPTABLE
63	-6.08	26.48	26.56	2.3 %	ACCEPTABLE
64	-8.41	24.24	27.46	16.4 %	ACCEPTABLE
65	-2.64	11.82	18.72	15.5 %	ACCEPTABLE
66	-8.03	22.27	26.28	16.5 %	ACCEPTABLE
67	-3.97	17.48	20.83	17.4 %	ACCEPTABLE
68	-6.95	16.76	23.55	16.2 %	ACCEPTABLE
69	-6.49	12.19	15.57	9.7 %	ACCEPTABLE
70	-12.46	23.84	24.67	1.8 %	ACCEPTABLE
71	-8.45	18.88	18.89	1.6 %	ACCEPTABLE
72	-10.97	17.48	20.83	4.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
73	-10.21	14.23	19.44	7.2 %	ACCEPTABLE
74	-10.69	16.27	20.26	4.9 %	ACCEPTABLE
75	-6.53	12.33	15.61	9.1 %	ACCEPTABLE
76	-8.32	23.76	27.16	16.4 %	ACCEPTABLE
77	-4.01	17.67	20.93	17.5 %	ACCEPTABLE
78	-0.30	16.78	20.50	16.6 %	ACCEPTABLE
79	-4.39	16.98	17.74	6.1 %	ACCEPTABLE
80	-7.25	36.20	36.26	2.3 %	ACCEPTABLE
81	-2.65	26.83	26.83	12.2 %	ACCEPTABLE
82	-4.96	24.50	27.63	16.9 %	ACCEPTABLE
83	0.83	11.96	18.76	14.6 %	ACCEPTABLE
84	-4.57	22.49	26.41	17.0 %	ACCEPTABLE
85	-0.51	17.67	20.93	16.8 %	ACCEPTABLE
86	-3.48	16.92	23.62	16.4 %	ACCEPTABLE
87	-3.03	12.35	15.63	17.4 %	ACCEPTABLE
88	-9.03	24.13	24.87	2.4 %	ACCEPTABLE
89	-5.01	19.14	19.06	1.8 %	ACCEPTABLE
90	-7.51	17.67	20.93	17.5 %	ACCEPTABLE
91	-3.80	16.78	20.50	17.4 %	ACCEPTABLE
92	-7.89	16.98	17.74	3.0 %	ACCEPTABLE
93	-6.15	26.83	26.83	2.2 %	ACCEPTABLE
94	-8.46	24.50	27.63	16.4 %	ACCEPTABLE
95	-2.67	11.96	18.76	15.6 %	ACCEPTABLE
96	-8.07	22.49	26.41	16.5 %	ACCEPTABLE
97	-4.01	17.67	20.93	17.5 %	ACCEPTABLE
98	-6.98	16.92	23.62	16.3 %	ACCEPTABLE
99	-6.53	12.35	15.63	8.7 %	ACCEPTABLE
100	-12.53	24.13	24.87	2.5 %	ACCEPTABLE
101	-11.01	17.67	20.93	4.6 %	ACCEPTABLE
102	-10.24	14.37	19.49	7.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
103	-10.72	16.43	20.34	4.9 %	ACCEPTABLE
104	-6.57	12.48	15.67	8.7 %	ACCEPTABLE
105	-8.36	24.00	27.32	16.4 %	ACCEPTABLE
106	-4.06	17.88	21.04	17.5 %	ACCEPTABLE
107	-361.96	1372.05	1409.92	1.9 %	ACCEPTABLE
108	-7.51	17.67	20.93	17.5 %	ACCEPTABLE
109	-5.18	17.68	20.93	17.5 %	ACCEPTABLE
110	-7.81	17.46	18.92	3.7 %	ACCEPTABLE
111	-9.44	28.32	29.42	2.8 %	ACCEPTABLE
112	-6.45	23.09	24.16	6.4 %	ACCEPTABLE
113	-8.17	22.16	25.30	16.6 %	ACCEPTABLE
114	-4.27	13.81	19.29	16.6 %	ACCEPTABLE
115	-7.91	20.92	24.58	16.6 %	ACCEPTABLE
116	-5.17	17.67	20.93	17.5 %	ACCEPTABLE
117	-7.12	17.13	22.68	16.5 %	ACCEPTABLE
118	-6.93	14.21	17.35	9.6 %	ACCEPTABLE
119	-10.83	21.85	23.34	2.8 %	ACCEPTABLE
120	-8.09	18.51	19.53	3.0 %	ACCEPTABLE
121	-9.85	17.67	20.93	4.8 %	ACCEPTABLE
122	-7.44	12.08	17.69	16.5 %	ACCEPTABLE
123	-9.41	15.83	20.07	9.0 %	ACCEPTABLE
124	-6.74	13.49	17.07	18.0 %	ACCEPTABLE
125	-4.31	13.13	16.94	17.6 %	ACCEPTABLE
126	-6.91	13.14	14.88	4.3 %	ACCEPTABLE
127	-8.54	22.06	23.48	3.0 %	ACCEPTABLE
128	-5.53	17.68	19.04	7.5 %	ACCEPTABLE
129	-7.40	17.18	20.69	17.4 %	ACCEPTABLE
130	-7.19	16.29	20.27	17.3 %	ACCEPTABLE
131	-4.40	13.49	17.07	17.7 %	ACCEPTABLE
132	-6.47	13.22	19.10	16.4 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
133	-9.95	16.72	18.52	3.7 %	ACCEPTABLE
134	-7.15	13.91	15.21	3.7 %	ACCEPTABLE
135	-9.08	13.49	17.07	5.1 %	ACCEPTABLE
136	-8.68	12.02	16.59	6.2 %	ACCEPTABLE
137	-8.93	12.95	16.88	5.3 %	ACCEPTABLE
138	-7.35	16.96	20.58	17.4 %	ACCEPTABLE
139	-4.43	13.58	17.10	17.8 %	ACCEPTABLE
140	-6.74	13.49	17.07	18.0 %	ACCEPTABLE
141	-5.18	13.49	17.07	17.8 %	ACCEPTABLE
142	-6.87	13.34	15.64	4.9 %	ACCEPTABLE
143	-7.88	18.74	20.87	5.4 %	ACCEPTABLE
144	-5.89	16.12	18.21	10.1 %	ACCEPTABLE
145	-7.19	15.92	19.43	17.7 %	ACCEPTABLE
146	-7.06	15.38	19.19	17.6 %	ACCEPTABLE
147	-5.18	13.49	17.07	17.8 %	ACCEPTABLE
148	-6.55	13.30	18.41	16.8 %	ACCEPTABLE
149	-8.88	15.64	17.98	4.4 %	ACCEPTABLE
150	-6.99	13.75	15.80	4.6 %	ACCEPTABLE
151	-8.30	13.49	17.07	5.3 %	ACCEPTABLE
152	-8.08	12.68	16.79	7.0 %	ACCEPTABLE
153	-8.21	13.17	16.96	5.6 %	ACCEPTABLE
154	-7.15	15.75	19.36	17.7 %	ACCEPTABLE
155	-5.21	13.61	17.11	17.8 %	ACCEPTABLE
156	-6.74	13.49	17.07	18.0 %	ACCEPTABLE
157	-5.73	13.59	17.11	18.3 %	ACCEPTABLE
158	-4.72	13.70	17.15	17.9 %	ACCEPTABLE
159	-5.83	13.53	16.17	11.6 %	ACCEPTABLE
160	-6.47	16.94	19.48	17.9 %	ACCEPTABLE
161	-5.15	15.29	17.82	18.5 %	ACCEPTABLE
162	-4.17	15.51	17.92	17.9 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
163	-5.28	15.24	16.92	7.9 %	ACCEPTABLE
164	-5.98	19.10	20.67	9.0 %	ACCEPTABLE
165	-4.64	17.26	18.82	18.2 %	ACCEPTABLE
166	-5.48	17.13	19.58	17.9 %	ACCEPTABLE
167	-3.68	13.69	17.15	17.2 %	ACCEPTABLE
168	-5.36	16.65	19.34	17.9 %	ACCEPTABLE
169	-4.11	15.29	17.82	17.9 %	ACCEPTABLE
170	-4.97	15.08	18.62	17.6 %	ACCEPTABLE
171	-4.89	13.89	16.31	18.8 %	ACCEPTABLE
172	-3.90	14.06	16.38	18.4 %	ACCEPTABLE
173	-5.01	13.82	15.39	6.3 %	ACCEPTABLE
174	-5.73	17.44	18.91	7.1 %	ACCEPTABLE
175	-4.38	15.71	17.15	11.8 %	ACCEPTABLE
176	-5.23	15.61	17.96	18.5 %	ACCEPTABLE
177	-3.42	12.39	15.76	17.4 %	ACCEPTABLE
178	-5.12	15.17	17.76	18.4 %	ACCEPTABLE
179	-3.85	13.89	16.31	18.3 %	ACCEPTABLE
180	-4.72	13.72	17.15	17.9 %	ACCEPTABLE
181	-4.61	12.55	14.88	19.1 %	ACCEPTABLE
182	-3.61	12.66	14.92	18.6 %	ACCEPTABLE
183	-4.71	12.47	13.94	5.1 %	ACCEPTABLE
184	-5.45	15.84	17.22	5.8 %	ACCEPTABLE
185	-4.09	14.22	15.57	9.7 %	ACCEPTABLE
186	-4.96	14.14	16.42	19.0 %	ACCEPTABLE
187	-4.85	13.76	16.26	18.7 %	ACCEPTABLE
188	-3.57	12.55	14.88	18.4 %	ACCEPTABLE
189	-4.46	12.41	15.76	18.0 %	ACCEPTABLE
190	-6.08	13.93	15.44	4.0 %	ACCEPTABLE
191	-4.80	12.72	14.04	4.3 %	ACCEPTABLE
192	-5.65	12.55	14.88	7.0 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
193	-5.49	12.05	14.71	9.1 %	ACCEPTABLE
194	-5.58	12.34	14.81	7.5 %	ACCEPTABLE
195	-4.92	14.00	16.36	18.8 %	ACCEPTABLE
196	-3.61	12.66	14.92	18.6 %	ACCEPTABLE
197	-4.61	12.55	14.88	19.1 %	ACCEPTABLE
198	-3.96	12.67	14.92	19.2 %	ACCEPTABLE
199	-3.31	12.80	14.97	18.6 %	ACCEPTABLE
200	-4.03	12.63	14.30	10.3 %	ACCEPTABLE
201	-4.52	14.80	16.42	11.2 %	ACCEPTABLE
202	-3.61	13.77	15.36	19.2 %	ACCEPTABLE
203	-2.98	13.96	15.45	19.1 %	ACCEPTABLE
204	-3.70	13.73	14.76	7.1 %	ACCEPTABLE
205	-4.21	16.11	17.08	7.7 %	ACCEPTABLE
206	-3.30	14.99	15.94	10.9 %	ACCEPTABLE
207	-3.86	14.94	16.48	18.9 %	ACCEPTABLE
208	-2.60	12.76	14.95	18.3 %	ACCEPTABLE
209	-3.77	14.62	16.33	18.8 %	ACCEPTABLE
210	-2.92	13.77	15.36	18.9 %	ACCEPTABLE
211	-3.48	13.64	15.90	18.5 %	ACCEPTABLE
212	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
213	-2.78	13.06	14.47	19.2 %	ACCEPTABLE
214	-3.51	12.85	13.79	6.5 %	ACCEPTABLE
215	-4.03	15.12	16.00	6.3 %	ACCEPTABLE
216	-3.11	14.04	14.91	9.1 %	ACCEPTABLE
217	-3.68	14.01	15.47	16.2 %	ACCEPTABLE
218	-2.41	11.93	14.04	18.5 %	ACCEPTABLE
219	-3.59	13.71	15.34	19.2 %	ACCEPTABLE
220	-2.73	12.89	14.40	19.2 %	ACCEPTABLE
221	-3.29	12.77	14.96	18.7 %	ACCEPTABLE
222	-3.22	12.04	13.47	14.0 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
223	-4.43	13.85	14.81	4.7 %	ACCEPTABLE
224	-3.57	13.03	13.87	5.5 %	ACCEPTABLE
225	-4.11	12.89	14.40	8.9 %	ACCEPTABLE
226	-4.00	12.54	14.26	10.9 %	ACCEPTABLE
227	-4.06	12.74	14.34	9.8 %	ACCEPTABLE
228	-3.19	11.95	13.44	14.3 %	ACCEPTABLE
229	-3.64	13.88	15.41	19.2 %	ACCEPTABLE
230	-2.76	13.00	14.44	19.2 %	ACCEPTABLE
231	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
232	-3.00	13.02	14.45	19.4 %	ACCEPTABLE
233	-3.48	12.87	14.00	7.8 %	ACCEPTABLE
234	-3.82	14.33	15.43	8.0 %	ACCEPTABLE
235	-3.21	13.64	14.72	11.1 %	ACCEPTABLE
236	-3.59	13.63	15.10	16.2 %	ACCEPTABLE
237	-2.75	12.25	14.16	18.8 %	ACCEPTABLE
238	-3.53	13.44	15.02	19.2 %	ACCEPTABLE
239	-2.96	12.89	14.40	19.4 %	ACCEPTABLE
240	-3.33	12.81	14.77	19.0 %	ACCEPTABLE
241	-3.29	12.33	13.78	12.7 %	ACCEPTABLE
242	-4.09	13.53	14.67	6.2 %	ACCEPTABLE
243	-3.52	12.98	14.04	7.6 %	ACCEPTABLE
244	-3.88	12.89	14.40	10.7 %	ACCEPTABLE
245	-3.33	11.85	13.81	19.0 %	ACCEPTABLE
246	-3.81	12.68	14.32	12.0 %	ACCEPTABLE
247	-3.24	12.17	13.72	16.4 %	ACCEPTABLE
248	-3.62	12.10	14.10	18.9 %	ACCEPTABLE
249	-3.85	12.79	14.36	10.3 %	ACCEPTABLE
250	-3.27	12.26	13.76	14.2 %	ACCEPTABLE
251	-3.57	13.54	15.07	16.2 %	ACCEPTABLE
252	-2.98	12.97	14.43	19.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
253	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
254	-3.14	12.99	14.44	19.4 %	ACCEPTABLE
255	-3.46	12.88	14.13	9.1 %	ACCEPTABLE
256	-3.68	13.84	15.07	10.4 %	ACCEPTABLE
257	-3.28	13.39	14.61	12.9 %	ACCEPTABLE
258	-3.54	13.38	14.87	16.3 %	ACCEPTABLE
259	-2.97	12.46	14.23	19.1 %	ACCEPTABLE
260	-3.50	13.26	14.81	19.4 %	ACCEPTABLE
261	-3.11	12.89	14.40	19.4 %	ACCEPTABLE
262	-3.36	12.84	14.64	19.1 %	ACCEPTABLE
263	-3.34	12.52	13.99	14.2 %	ACCEPTABLE
264	-3.87	13.32	14.58	8.3 %	ACCEPTABLE
265	-3.48	12.95	14.16	8.9 %	ACCEPTABLE
266	-3.73	12.89	14.40	12.1 %	ACCEPTABLE
267	-3.36	12.18	14.00	19.1 %	ACCEPTABLE
268	-3.16	12.01	13.80	19.0 %	ACCEPTABLE
269	-3.68	12.76	14.35	14.2 %	ACCEPTABLE
270	-3.30	12.41	13.95	16.1 %	ACCEPTABLE
271	-3.55	12.36	14.20	19.1 %	ACCEPTABLE
272	-3.71	12.83	14.37	12.0 %	ACCEPTABLE
273	-3.32	12.47	13.97	13.9 %	ACCEPTABLE
274	-3.52	13.32	14.84	19.4 %	ACCEPTABLE
275	-3.13	12.94	14.42	19.3 %	ACCEPTABLE
276	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
277	-3.24	12.96	14.43	19.5 %	ACCEPTABLE
278	-3.06	13.03	14.46	19.4 %	ACCEPTABLE
279	-3.27	12.96	14.25	12.5 %	ACCEPTABLE
280	-3.42	13.59	14.87	12.8 %	ACCEPTABLE
281	-3.14	13.29	14.57	16.6 %	ACCEPTABLE
282	-3.32	13.29	14.74	19.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
283	-2.94	12.67	14.32	19.2 %	ACCEPTABLE
284	-3.29	13.21	14.71	19.3 %	ACCEPTABLE
285	-3.03	12.96	14.43	19.4 %	ACCEPTABLE
286	-3.20	12.92	14.59	19.2 %	ACCEPTABLE
287	-3.19	12.71	14.15	16.2 %	ACCEPTABLE
288	-3.54	13.25	14.55	11.3 %	ACCEPTABLE
289	-3.28	13.00	14.27	11.1 %	ACCEPTABLE
290	-3.45	12.96	14.43	14.2 %	ACCEPTABLE
291	-3.20	12.48	14.15	19.3 %	ACCEPTABLE
292	-3.07	12.36	14.02	19.2 %	ACCEPTABLE
293	-3.42	12.87	14.39	16.2 %	ACCEPTABLE
294	-3.16	12.64	14.12	19.5 %	ACCEPTABLE
295	-2.98	12.71	14.15	19.4 %	ACCEPTABLE
296	-3.19	12.64	13.94	12.6 %	ACCEPTABLE
297	-3.34	13.25	14.55	12.8 %	ACCEPTABLE
298	-3.06	12.96	14.25	16.5 %	ACCEPTABLE
299	-3.24	12.96	14.43	19.5 %	ACCEPTABLE
300	-2.86	12.36	14.01	19.2 %	ACCEPTABLE
301	-3.21	12.88	14.39	19.5 %	ACCEPTABLE
302	-2.95	12.64	14.12	19.3 %	ACCEPTABLE
303	-3.12	12.60	14.28	19.1 %	ACCEPTABLE
304	-3.10	12.39	13.85	16.5 %	ACCEPTABLE
305	-3.46	12.92	14.23	11.2 %	ACCEPTABLE
306	-3.20	12.68	13.96	11.4 %	ACCEPTABLE
307	-3.37	12.64	14.12	14.2 %	ACCEPTABLE
308	-3.12	12.17	13.85	19.1 %	ACCEPTABLE
309	-2.99	12.05	13.72	19.3 %	ACCEPTABLE
310	-3.34	12.56	14.09	16.4 %	ACCEPTABLE
311	-3.08	12.32	13.82	19.5 %	ACCEPTABLE
312	-3.25	12.29	13.99	19.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
313	-3.35	12.60	14.10	14.2 %	ACCEPTABLE
314	-3.09	12.36	13.83	16.2 %	ACCEPTABLE
315	-3.23	12.92	14.41	19.4 %	ACCEPTABLE
316	-2.97	12.68	14.13	19.4 %	ACCEPTABLE
317	-3.16	12.64	14.12	19.5 %	ACCEPTABLE
318	-3.04	12.69	14.14	19.5 %	ACCEPTABLE
319	-2.92	12.74	14.16	19.4 %	ACCEPTABLE
320	-3.06	12.69	14.02	16.5 %	ACCEPTABLE
321	-3.16	13.10	14.42	16.5 %	ACCEPTABLE
322	-2.98	12.91	14.23	19.5 %	ACCEPTABLE
323	-3.09	12.90	14.34	19.3 %	ACCEPTABLE
324	-2.84	12.50	14.07	19.2 %	ACCEPTABLE
325	-3.08	12.85	14.32	19.3 %	ACCEPTABLE
326	-2.90	12.69	14.14	19.3 %	ACCEPTABLE
327	-3.01	12.67	14.25	19.3 %	ACCEPTABLE
328	-3.00	12.53	13.96	19.5 %	ACCEPTABLE
329	-3.24	12.88	14.22	12.7 %	ACCEPTABLE
330	-3.07	12.71	14.03	16.5 %	ACCEPTABLE
331	-3.18	12.69	14.14	16.5 %	ACCEPTABLE
332	-3.01	12.37	13.96	19.3 %	ACCEPTABLE
333	-2.92	12.29	13.87	19.3 %	ACCEPTABLE
334	-3.16	12.64	14.12	19.5 %	ACCEPTABLE
335	-2.99	12.48	13.94	19.4 %	ACCEPTABLE
336	-3.10	12.45	14.05	19.3 %	ACCEPTABLE
337	-3.17	12.66	14.13	19.5 %	ACCEPTABLE
338	-3.00	12.50	13.95	19.5 %	ACCEPTABLE
339	-2.88	12.55	13.97	19.3 %	ACCEPTABLE
340	-3.02	12.50	13.83	14.1 %	ACCEPTABLE
341	-3.12	12.90	14.23	14.6 %	ACCEPTABLE
342	-2.94	12.71	14.03	19.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
343	-2.82	12.76	14.05	19.5 %	ACCEPTABLE
344	-2.96	12.71	13.91	12.5 %	ACCEPTABLE
345	-3.06	13.12	14.32	12.5 %	ACCEPTABLE
346	-2.88	12.93	14.12	14.5 %	ACCEPTABLE
347	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
348	-2.87	12.98	14.26	19.5 %	ACCEPTABLE
349	-3.01	12.93	14.12	12.9 %	ACCEPTABLE
350	-3.11	13.35	14.53	14.2 %	ACCEPTABLE
351	-2.93	13.15	14.33	16.4 %	ACCEPTABLE
352	-3.04	13.15	14.45	16.3 %	ACCEPTABLE
353	-2.79	12.74	14.16	19.4 %	ACCEPTABLE
354	-3.03	13.09	14.42	19.5 %	ACCEPTABLE
355	-2.85	12.93	14.24	19.5 %	ACCEPTABLE
356	-2.96	12.90	14.35	19.3 %	ACCEPTABLE
357	-2.95	12.76	14.06	16.5 %	ACCEPTABLE
358	-3.19	13.12	14.32	11.1 %	ACCEPTABLE
359	-3.02	12.96	14.13	12.5 %	ACCEPTABLE
360	-3.13	12.93	14.24	14.6 %	ACCEPTABLE
361	-2.96	12.61	14.05	19.4 %	ACCEPTABLE
362	-2.87	12.53	13.96	19.3 %	ACCEPTABLE
363	-3.11	12.87	14.22	16.7 %	ACCEPTABLE
364	-2.94	12.71	14.03	19.6 %	ACCEPTABLE
365	-3.05	12.69	14.14	19.5 %	ACCEPTABLE
366	-3.12	12.90	14.23	14.6 %	ACCEPTABLE
367	-2.95	12.74	14.05	19.6 %	ACCEPTABLE
368	-3.03	13.12	14.44	19.4 %	ACCEPTABLE
369	-2.86	12.96	14.25	19.5 %	ACCEPTABLE
370	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
371	-2.91	12.96	14.25	19.5 %	ACCEPTABLE
372	-3.00	12.93	14.16	14.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
373	-3.07	13.21	14.43	14.2 %	ACCEPTABLE
374	-2.95	13.08	14.30	16.5 %	ACCEPTABLE
375	-3.03	13.08	14.38	16.7 %	ACCEPTABLE
376	-2.86	12.80	14.19	19.4 %	ACCEPTABLE
377	-3.01	13.04	14.36	19.4 %	ACCEPTABLE
378	-2.90	12.93	14.24	19.5 %	ACCEPTABLE
379	-2.97	12.91	14.31	19.4 %	ACCEPTABLE
380	-2.97	12.82	14.12	16.8 %	ACCEPTABLE
381	-3.12	13.06	14.29	14.2 %	ACCEPTABLE
382	-3.01	12.95	14.17	14.6 %	ACCEPTABLE
383	-3.08	12.93	14.24	16.7 %	ACCEPTABLE
384	-2.97	12.71	14.11	19.6 %	ACCEPTABLE
385	-2.91	12.66	14.05	19.4 %	ACCEPTABLE
386	-3.07	12.89	14.22	16.5 %	ACCEPTABLE
387	-2.95	12.78	14.10	19.6 %	ACCEPTABLE
388	-3.03	12.77	14.17	19.6 %	ACCEPTABLE
389	-3.07	12.91	14.23	16.5 %	ACCEPTABLE
390	-2.96	12.80	14.11	16.5 %	ACCEPTABLE
391	-3.02	13.06	14.37	19.5 %	ACCEPTABLE
392	-2.90	12.95	14.25	19.5 %	ACCEPTABLE
393	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
394	-2.94	12.95	14.25	19.5 %	ACCEPTABLE
395	-3.00	12.93	14.19	16.5 %	ACCEPTABLE
396	-3.04	13.11	14.37	16.7 %	ACCEPTABLE
397	-2.96	13.03	14.28	16.4 %	ACCEPTABLE
398	-3.01	13.03	14.33	19.5 %	ACCEPTABLE
399	-2.90	12.85	14.21	19.5 %	ACCEPTABLE
400	-3.01	13.00	14.32	19.6 %	ACCEPTABLE
401	-2.93	12.93	14.24	19.5 %	ACCEPTABLE
402	-2.98	12.92	14.29	19.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
403	-2.97	12.86	14.16	16.7 %	ACCEPTABLE
404	-3.08	13.01	14.28	14.6 %	ACCEPTABLE
405	-3.00	12.94	14.19	14.2 %	ACCEPTABLE
406	-3.05	12.93	14.24	16.7 %	ACCEPTABLE
407	-2.98	12.79	14.16	19.4 %	ACCEPTABLE
408	-2.94	12.75	14.11	19.4 %	ACCEPTABLE
409	-3.04	12.91	14.23	16.5 %	ACCEPTABLE
410	-2.97	12.83	14.15	16.5 %	ACCEPTABLE
411	-3.01	12.82	14.20	19.6 %	ACCEPTABLE
412	-3.05	12.92	14.23	16.7 %	ACCEPTABLE
413	-2.97	12.84	14.15	16.4 %	ACCEPTABLE
414	-3.01	13.02	14.33	19.6 %	ACCEPTABLE
415	-2.93	12.94	14.24	19.5 %	ACCEPTABLE
416	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
417	-2.95	12.95	14.25	19.5 %	ACCEPTABLE
418	-3.00	12.93	14.21	16.5 %	ACCEPTABLE
419	-3.02	13.05	14.33	16.4 %	ACCEPTABLE
420	-2.97	12.99	14.27	16.6 %	ACCEPTABLE
421	-3.01	12.99	14.30	19.5 %	ACCEPTABLE
422	-2.93	12.87	14.22	19.5 %	ACCEPTABLE
423	-3.00	12.98	14.29	19.6 %	ACCEPTABLE
424	-2.95	12.93	14.24	19.5 %	ACCEPTABLE
425	-2.98	12.92	14.27	19.4 %	ACCEPTABLE
426	-2.98	12.88	14.19	16.4 %	ACCEPTABLE
427	-3.05	12.99	14.26	14.6 %	ACCEPTABLE
428	-3.00	12.94	14.21	14.6 %	ACCEPTABLE
429	-3.03	12.93	14.24	16.7 %	ACCEPTABLE
430	-2.98	12.83	14.18	19.5 %	ACCEPTABLE
431	-2.96	12.81	14.16	19.5 %	ACCEPTABLE
432	-3.02	12.91	14.23	16.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
433	-2.97	12.87	14.18	16.5 %	ACCEPTABLE
434	-3.01	12.86	14.21	19.6 %	ACCEPTABLE
435	-3.03	12.92	14.24	16.7 %	ACCEPTABLE
436	-2.98	12.87	14.18	16.5 %	ACCEPTABLE
437	-3.00	12.99	14.30	19.5 %	ACCEPTABLE
438	-2.95	12.94	14.24	19.5 %	ACCEPTABLE
439	-6.09	36.01	37.85	15.6 %	ACCEPTABLE
440	4.90	31.98	33.99	13.4 %	ACCEPTABLE
441	1.21	18.27	31.71	14.1 %	ACCEPTABLE
442	-11.46	24.29	25.87	2.7 %	ACCEPTABLE
443	-10.41	19.48	22.93	5.7 %	ACCEPTABLE
444	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
445	-5.79	34.27	36.53	15.8 %	ACCEPTABLE
446	-4.14	24.65	30.04	16.6 %	ACCEPTABLE
447	-6.09	36.00	37.84	15.6 %	ACCEPTABLE
448	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
449	-15.10	72.65	69.77	2.4 %	ACCEPTABLE
450	-5.06	26.35	28.17	16.9 %	ACCEPTABLE
451	-3.91	20.77	24.67	17.2 %	ACCEPTABLE
452	5.06	12.41	14.03	3.7 %	ACCEPTABLE
453	-13.69	21.33	19.48	1.6 %	ACCEPTABLE
454	-13.91	21.52	19.77	1.6 %	ACCEPTABLE
455	-10.70	12.41	14.03	1.8 %	ACCEPTABLE
456	-5.08	26.45	28.24	16.9 %	ACCEPTABLE
457	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
458	-10.63	47.61	44.88	2.7 %	ACCEPTABLE
459	-2.62	27.51	24.70	5.2 %	ACCEPTABLE
460	-4.45	21.36	22.98	17.7 %	ACCEPTABLE
461	-3.69	18.11	21.10	17.6 %	ACCEPTABLE
462	2.43	12.41	14.03	14.0 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
463	-2.22	11.86	18.67	15.6 %	ACCEPTABLE
464	-10.27	18.96	17.71	2.8 %	ACCEPTABLE
465	-5.16	14.43	11.40	2.3 %	ACCEPTABLE
466	-8.07	12.41	14.03	3.9 %	ACCEPTABLE
467	-4.37	21.02	22.77	17.7 %	ACCEPTABLE
468	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
469	-3.98	18.20	19.74	18.0 %	ACCEPTABLE
470	-3.48	16.29	18.72	17.8 %	ACCEPTABLE
471	0.68	12.41	14.03	15.7 %	ACCEPTABLE
472	-2.36	11.99	17.06	16.2 %	ACCEPTABLE
473	-6.32	12.41	14.03	4.3 %	ACCEPTABLE
474	-3.88	17.81	19.53	18.0 %	ACCEPTABLE
475	0.71	12.34	14.00	15.6 %	ACCEPTABLE
476	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
477	-0.33	11.95	13.87	16.5 %	ACCEPTABLE
478	-2.99	11.93	11.85	2.2 %	ACCEPTABLE
479	-5.10	21.39	20.95	1.6 %	ACCEPTABLE
480	-1.94	16.76	16.24	1.8 %	ACCEPTABLE
481	-3.63	16.18	17.71	18.4 %	ACCEPTABLE
482	-3.31	15.04	17.15	18.0 %	ACCEPTABLE
483	-0.48	12.41	14.03	16.8 %	ACCEPTABLE
484	-2.48	12.10	16.02	16.8 %	ACCEPTABLE
485	-6.18	15.47	15.48	2.4 %	ACCEPTABLE
486	-5.16	12.41	14.03	4.9 %	ACCEPTABLE
487	-3.54	15.86	17.55	18.2 %	ACCEPTABLE
488	-0.52	12.53	14.07	16.9 %	ACCEPTABLE
489	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
490	-1.27	12.42	14.03	17.9 %	ACCEPTABLE
491	-2.97	12.20	12.62	3.4 %	ACCEPTABLE
492	-4.24	17.79	18.01	3.0 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
493	-2.16	15.09	15.27	6.9 %	ACCEPTABLE
494	-3.38	14.88	16.42	18.9 %	ACCEPTABLE
495	-3.17	14.19	16.10	18.6 %	ACCEPTABLE
496	-1.26	12.41	14.03	17.8 %	ACCEPTABLE
497	-2.58	12.19	15.34	17.5 %	ACCEPTABLE
498	-5.07	14.47	14.94	3.0 %	ACCEPTABLE
499	-3.17	12.72	12.84	2.2 %	ACCEPTABLE
500	-4.38	12.41	14.03	7.4 %	ACCEPTABLE
501	-4.25	12.03	13.89	9.7 %	ACCEPTABLE
502	-3.31	14.65	16.31	18.7 %	ACCEPTABLE
503	-1.31	12.56	14.09	17.9 %	ACCEPTABLE
504	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
505	-1.83	12.54	14.08	18.3 %	ACCEPTABLE
506	-2.93	12.32	13.10	6.5 %	ACCEPTABLE
507	-3.73	15.77	16.45	6.7 %	ACCEPTABLE
508	-2.35	14.12	14.77	12.4 %	ACCEPTABLE
509	-3.20	14.04	15.59	19.0 %	ACCEPTABLE
510	-3.07	13.61	15.41	18.8 %	ACCEPTABLE
511	-1.78	12.41	14.03	18.3 %	ACCEPTABLE
512	-2.65	12.26	14.89	18.0 %	ACCEPTABLE
513	-4.32	13.79	14.61	3.6 %	ACCEPTABLE
514	-3.04	12.60	13.22	4.5 %	ACCEPTABLE
515	-3.86	12.41	14.03	11.0 %	ACCEPTABLE
516	-3.67	11.86	13.83	19.4 %	ACCEPTABLE
517	-2.66	11.95	13.86	18.8 %	ACCEPTABLE
518	-4.55	15.05	16.07	5.7 %	ACCEPTABLE
519	-3.17	13.47	14.46	9.1 %	ACCEPTABLE
520	-4.04	13.40	15.32	19.5 %	ACCEPTABLE
521	-3.06	13.57	15.39	18.8 %	ACCEPTABLE
522	-4.16	13.32	14.40	5.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
523	-4.92	16.93	17.90	5.7 %	ACCEPTABLE
524	-3.56	15.21	16.16	9.7 %	ACCEPTABLE
525	-4.40	15.11	16.96	18.7 %	ACCEPTABLE
526	-2.55	11.93	14.78	17.7 %	ACCEPTABLE
527	-4.27	14.65	16.75	18.4 %	ACCEPTABLE
528	-3.00	13.40	15.32	18.7 %	ACCEPTABLE
529	-3.86	13.23	16.16	17.9 %	ACCEPTABLE
530	-3.75	12.09	13.91	14.1 %	ACCEPTABLE
531	-5.53	14.87	15.99	3.6 %	ACCEPTABLE
532	-4.26	13.62	14.53	4.8 %	ACCEPTABLE
533	-5.08	13.40	15.32	8.3 %	ACCEPTABLE
534	-4.90	12.82	15.09	13.6 %	ACCEPTABLE
535	-5.00	13.16	15.22	9.5 %	ACCEPTABLE
536	-3.71	11.98	13.87	16.4 %	ACCEPTABLE
537	-4.35	14.93	16.88	18.6 %	ACCEPTABLE
538	-3.05	13.54	15.38	18.7 %	ACCEPTABLE
539	-4.04	13.40	15.32	19.5 %	ACCEPTABLE
540	-3.40	13.57	15.39	19.0 %	ACCEPTABLE
541	-4.12	13.36	14.71	7.7 %	ACCEPTABLE
542	-4.62	15.66	16.95	7.9 %	ACCEPTABLE
543	-3.71	14.57	15.84	12.2 %	ACCEPTABLE
544	-4.29	14.53	16.40	18.8 %	ACCEPTABLE
545	-3.04	12.42	14.95	18.2 %	ACCEPTABLE
546	-4.20	14.24	16.27	18.6 %	ACCEPTABLE
547	-3.35	13.40	15.32	18.8 %	ACCEPTABLE
548	-3.92	13.28	15.88	18.2 %	ACCEPTABLE
549	-3.85	12.53	14.38	16.5 %	ACCEPTABLE
550	-5.03	14.38	15.75	5.6 %	ACCEPTABLE
551	-4.18	13.54	14.79	7.2 %	ACCEPTABLE
552	-4.73	13.40	15.32	11.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
553	-3.94	11.84	14.44	18.7 %	ACCEPTABLE
554	-4.63	13.06	15.18	13.7 %	ACCEPTABLE
555	-3.78	12.31	14.29	19.4 %	ACCEPTABLE
556	-4.37	12.22	14.88	18.7 %	ACCEPTABLE
557	-4.69	13.25	15.26	10.7 %	ACCEPTABLE
558	-3.82	12.44	14.34	19.5 %	ACCEPTABLE
559	-4.25	14.41	16.35	18.8 %	ACCEPTABLE
560	-3.38	13.51	15.36	18.9 %	ACCEPTABLE
561	-4.04	13.40	15.32	19.5 %	ACCEPTABLE
562	-3.62	13.53	15.37	18.9 %	ACCEPTABLE
563	-4.10	13.38	14.92	10.2 %	ACCEPTABLE
564	-4.42	14.87	16.37	10.7 %	ACCEPTABLE
565	-3.82	14.17	15.65	16.1 %	ACCEPTABLE
566	-4.21	14.15	16.03	18.8 %	ACCEPTABLE
567	-3.38	12.75	15.06	18.6 %	ACCEPTABLE
568	-4.15	13.96	15.95	18.8 %	ACCEPTABLE
569	-3.58	13.40	15.32	18.9 %	ACCEPTABLE
570	-3.96	13.32	15.69	18.5 %	ACCEPTABLE
571	-3.92	12.83	14.69	19.5 %	ACCEPTABLE
572	-3.50	12.95	14.74	19.1 %	ACCEPTABLE
573	-3.97	12.81	14.28	8.9 %	ACCEPTABLE
574	-4.30	14.25	15.69	8.9 %	ACCEPTABLE
575	-3.70	13.57	14.99	12.2 %	ACCEPTABLE
576	-4.09	13.56	15.38	16.3 %	ACCEPTABLE
577	-3.26	12.20	14.46	18.5 %	ACCEPTABLE
578	-4.03	13.38	15.31	19.4 %	ACCEPTABLE
579	-3.46	12.83	14.69	19.0 %	ACCEPTABLE
580	-3.84	12.76	15.07	19.1 %	ACCEPTABLE
581	-3.79	12.27	14.08	14.5 %	ACCEPTABLE
582	-4.58	13.46	14.95	6.8 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
583	-4.01	12.91	14.32	8.2 %	ACCEPTABLE
584	-4.38	12.83	14.69	10.9 %	ACCEPTABLE
585	-4.32	12.63	14.61	12.6 %	ACCEPTABLE
586	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
587	-3.32	12.22	14.06	19.2 %	ACCEPTABLE
588	-3.80	12.10	13.61	8.2 %	ACCEPTABLE
589	-4.13	13.47	14.95	9.3 %	ACCEPTABLE
590	-3.52	12.82	14.28	12.1 %	ACCEPTABLE
591	-3.92	12.81	14.68	19.5 %	ACCEPTABLE
592	-3.87	12.65	14.62	19.5 %	ACCEPTABLE
593	-3.29	12.12	14.02	18.9 %	ACCEPTABLE
594	-3.68	12.05	14.41	19.0 %	ACCEPTABLE
595	-4.41	12.72	14.25	6.9 %	ACCEPTABLE
596	-3.83	12.19	13.64	8.7 %	ACCEPTABLE
597	-4.21	12.12	14.02	10.9 %	ACCEPTABLE
598	-4.15	11.94	13.96	12.6 %	ACCEPTABLE
599	-4.18	12.04	13.99	12.2 %	ACCEPTABLE
600	-3.90	12.74	14.65	19.6 %	ACCEPTABLE
601	-3.31	12.18	14.04	19.0 %	ACCEPTABLE
602	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
603	-3.47	12.20	14.05	19.1 %	ACCEPTABLE
604	-3.78	12.11	13.75	10.4 %	ACCEPTABLE
605	-4.00	13.01	14.62	10.9 %	ACCEPTABLE
606	-3.60	12.58	14.19	13.8 %	ACCEPTABLE
607	-3.86	12.58	14.46	16.5 %	ACCEPTABLE
608	-3.83	12.48	14.42	19.5 %	ACCEPTABLE
609	-3.44	12.12	14.02	19.0 %	ACCEPTABLE
610	-3.70	12.08	14.28	19.3 %	ACCEPTABLE
611	-4.19	12.52	14.17	8.9 %	ACCEPTABLE
612	-3.80	12.17	13.77	9.9 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
613	-4.06	12.12	14.02	12.2 %	ACCEPTABLE
614	-4.02	12.01	13.98	14.0 %	ACCEPTABLE
615	-4.04	12.07	14.00	12.3 %	ACCEPTABLE
616	-3.85	12.53	14.44	19.5 %	ACCEPTABLE
617	-3.46	12.16	14.04	19.1 %	ACCEPTABLE
618	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
619	-3.56	12.18	14.04	19.0 %	ACCEPTABLE
620	-3.77	12.12	13.84	12.8 %	ACCEPTABLE
621	-3.92	12.71	14.42	12.3 %	ACCEPTABLE
622	-3.65	12.43	14.13	13.8 %	ACCEPTABLE
623	-3.83	12.42	14.31	16.3 %	ACCEPTABLE
624	-3.46	11.85	13.93	18.7 %	ACCEPTABLE
625	-3.80	12.36	14.29	19.5 %	ACCEPTABLE
626	-3.54	12.12	14.02	19.0 %	ACCEPTABLE
627	-3.72	12.09	14.19	19.3 %	ACCEPTABLE
628	-3.69	11.88	13.76	16.4 %	ACCEPTABLE
629	-4.04	12.39	14.12	10.9 %	ACCEPTABLE
630	-3.79	12.15	13.85	12.4 %	ACCEPTABLE
631	-3.96	12.12	14.02	14.0 %	ACCEPTABLE
632	-3.93	12.05	13.99	14.3 %	ACCEPTABLE
633	-3.94	12.09	14.01	14.0 %	ACCEPTABLE
634	-3.68	11.85	13.75	19.6 %	ACCEPTABLE
635	-3.82	12.39	14.30	16.3 %	ACCEPTABLE
636	-3.55	12.15	14.03	19.0 %	ACCEPTABLE
637	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
638	-3.63	12.16	14.03	19.0 %	ACCEPTABLE
639	-3.77	12.12	13.90	12.8 %	ACCEPTABLE
640	-3.86	12.51	14.28	14.5 %	ACCEPTABLE
641	-3.68	12.32	14.09	16.3 %	ACCEPTABLE
642	-3.80	12.32	14.21	16.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
643	-3.55	11.94	13.96	18.9 %	ACCEPTABLE
644	-3.79	12.28	14.20	19.5 %	ACCEPTABLE
645	-3.61	12.12	14.02	19.0 %	ACCEPTABLE
646	-3.73	12.10	14.13	19.4 %	ACCEPTABLE
647	-3.71	11.96	13.84	16.4 %	ACCEPTABLE
648	-3.95	12.30	14.08	10.9 %	ACCEPTABLE
649	-3.77	12.14	13.91	14.1 %	ACCEPTABLE
650	-3.89	12.12	14.02	14.0 %	ACCEPTABLE
651	-3.73	11.82	13.86	19.3 %	ACCEPTABLE
652	-3.87	12.07	14.00	14.0 %	ACCEPTABLE
653	-3.70	11.92	13.83	19.5 %	ACCEPTABLE
654	-3.81	11.90	13.94	19.5 %	ACCEPTABLE
655	-3.88	12.10	14.01	14.0 %	ACCEPTABLE
656	-3.71	11.94	13.84	16.4 %	ACCEPTABLE
657	-3.79	12.30	14.21	19.5 %	ACCEPTABLE
658	-3.62	12.14	14.03	19.0 %	ACCEPTABLE
659	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
660	-3.67	12.15	14.03	19.5 %	ACCEPTABLE
661	-3.76	12.12	13.94	14.1 %	ACCEPTABLE
662	-3.82	12.38	14.19	14.1 %	ACCEPTABLE
663	-3.70	12.25	14.07	16.5 %	ACCEPTABLE
664	-3.78	12.26	14.15	19.5 %	ACCEPTABLE
665	-3.62	12.00	13.98	19.4 %	ACCEPTABLE
666	-3.77	12.23	14.14	16.5 %	ACCEPTABLE
667	-3.66	12.12	14.02	19.5 %	ACCEPTABLE
668	-3.73	12.11	14.10	19.4 %	ACCEPTABLE
669	-3.73	12.01	13.90	16.4 %	ACCEPTABLE
670	-3.88	12.24	14.06	14.1 %	ACCEPTABLE
671	-3.77	12.13	13.94	14.1 %	ACCEPTABLE
672	-3.84	12.12	14.02	16.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
673	-3.73	11.92	13.91	19.4 %	ACCEPTABLE
674	-3.68	11.87	13.85	19.4 %	ACCEPTABLE
675	-3.83	12.09	14.01	16.4 %	ACCEPTABLE
676	-3.72	11.99	13.89	16.4 %	ACCEPTABLE
677	-3.79	11.97	13.97	19.6 %	ACCEPTABLE
678	-3.84	12.11	14.01	16.4 %	ACCEPTABLE
679	-3.72	12.00	13.90	16.3 %	ACCEPTABLE
680	-3.78	12.24	14.14	19.5 %	ACCEPTABLE
681	-3.66	12.13	14.02	19.6 %	ACCEPTABLE
682	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
683	-3.70	12.14	14.03	16.6 %	ACCEPTABLE
684	-3.76	12.12	13.97	16.7 %	ACCEPTABLE
685	-3.80	12.29	14.13	16.4 %	ACCEPTABLE
686	-3.72	12.21	14.05	16.4 %	ACCEPTABLE
687	-3.77	12.21	14.11	16.6 %	ACCEPTABLE
688	-3.66	12.04	13.99	19.5 %	ACCEPTABLE
689	-3.77	12.19	14.10	19.6 %	ACCEPTABLE
690	-3.69	12.12	14.02	19.5 %	ACCEPTABLE
691	-3.74	12.11	14.07	19.4 %	ACCEPTABLE
692	-3.73	12.05	13.94	16.3 %	ACCEPTABLE
693	-3.84	12.20	14.05	14.1 %	ACCEPTABLE
694	-3.76	12.13	13.97	14.1 %	ACCEPTABLE
695	-3.81	12.12	14.02	16.4 %	ACCEPTABLE
696	-3.74	11.99	13.95	19.6 %	ACCEPTABLE
697	-3.70	11.95	13.91	19.4 %	ACCEPTABLE
698	-3.80	12.10	14.01	16.4 %	ACCEPTABLE
699	-3.73	12.03	13.93	16.4 %	ACCEPTABLE
700	-3.78	12.02	13.99	19.6 %	ACCEPTABLE
701	-3.81	12.11	14.02	16.4 %	ACCEPTABLE
702	-3.73	12.04	13.94	19.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
703	-3.77	12.20	14.10	19.5 %	ACCEPTABLE
704	-3.69	12.13	14.02	19.6 %	ACCEPTABLE
705	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
706	-3.71	12.13	14.02	19.5 %	ACCEPTABLE
707	-3.75	12.12	13.98	16.7 %	ACCEPTABLE
708	-3.78	12.23	14.10	16.3 %	ACCEPTABLE
709	-3.73	12.18	14.04	16.5 %	ACCEPTABLE
710	-3.77	12.18	14.08	16.6 %	ACCEPTABLE
711	-3.69	12.07	14.00	19.5 %	ACCEPTABLE
712	-3.76	12.17	14.07	19.6 %	ACCEPTABLE
713	-3.71	12.12	14.02	19.5 %	ACCEPTABLE
714	-3.74	12.11	14.05	19.5 %	ACCEPTABLE
715	-3.74	12.07	13.97	19.7 %	ACCEPTABLE
716	-3.70	12.08	13.97	19.7 %	ACCEPTABLE
717	-3.66	12.09	13.97	19.6 %	ACCEPTABLE
718	-3.70	12.08	13.93	19.7 %	ACCEPTABLE
719	-3.66	12.09	13.93	16.6 %	ACCEPTABLE
720	-3.70	12.08	13.89	14.1 %	ACCEPTABLE
721	-3.73	12.19	14.01	16.4 %	ACCEPTABLE
722	-3.68	12.14	13.95	16.5 %	ACCEPTABLE
723	-3.72	12.14	13.99	16.4 %	ACCEPTABLE
724	-3.64	12.03	13.91	19.5 %	ACCEPTABLE
725	-3.71	12.13	13.98	16.7 %	ACCEPTABLE
726	-3.66	12.08	13.93	19.7 %	ACCEPTABLE
727	-3.62	12.09	13.93	19.0 %	ACCEPTABLE
728	-3.66	12.08	13.89	16.5 %	ACCEPTABLE
729	-3.69	12.19	14.01	16.4 %	ACCEPTABLE
730	-3.64	12.14	13.95	16.5 %	ACCEPTABLE
731	-3.68	12.14	13.99	16.5 %	ACCEPTABLE
732	-3.60	12.03	13.91	19.0 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
733	-3.67	12.13	13.98	16.7 %	ACCEPTABLE
734	-3.62	12.08	13.93	19.6 %	ACCEPTABLE
735	-3.65	12.07	13.96	19.5 %	ACCEPTABLE
736	-3.65	12.03	13.88	16.6 %	ACCEPTABLE
737	-3.72	12.13	13.95	16.7 %	ACCEPTABLE
738	-3.67	12.09	13.90	16.5 %	ACCEPTABLE
739	-3.70	12.08	13.93	19.7 %	ACCEPTABLE
740	-3.65	11.99	13.88	19.5 %	ACCEPTABLE
741	-3.63	11.97	13.85	19.6 %	ACCEPTABLE
742	-3.70	12.07	13.93	16.7 %	ACCEPTABLE
743	-3.64	12.02	13.87	19.7 %	ACCEPTABLE
744	-3.60	12.03	13.87	19.2 %	ACCEPTABLE
745	-3.64	12.02	13.83	16.5 %	ACCEPTABLE
746	-3.67	12.13	13.95	16.6 %	ACCEPTABLE
747	-3.62	12.08	13.89	16.4 %	ACCEPTABLE
748	-3.66	12.08	13.93	19.7 %	ACCEPTABLE
749	-3.58	11.97	13.85	19.0 %	ACCEPTABLE
750	-3.65	12.07	13.92	19.7 %	ACCEPTABLE
751	-3.60	12.02	13.87	19.5 %	ACCEPTABLE
752	-3.63	12.01	13.90	19.5 %	ACCEPTABLE
753	-3.63	11.97	13.82	19.7 %	ACCEPTABLE
754	-3.59	11.98	13.82	16.7 %	ACCEPTABLE
755	-3.63	11.97	13.78	16.5 %	ACCEPTABLE
756	-3.66	12.08	13.90	16.7 %	ACCEPTABLE
757	-3.61	12.03	13.84	16.4 %	ACCEPTABLE
758	-3.65	12.03	13.88	16.6 %	ACCEPTABLE
759	-3.57	11.92	13.80	19.6 %	ACCEPTABLE
760	-3.64	12.02	13.87	19.7 %	ACCEPTABLE
761	-3.59	11.97	13.82	19.6 %	ACCEPTABLE
762	-3.62	11.96	13.85	19.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
763	-3.62	11.92	13.77	16.4 %	ACCEPTABLE
764	-3.69	12.02	13.84	14.1 %	ACCEPTABLE
765	-3.64	11.98	13.79	14.1 %	ACCEPTABLE
766	-3.67	11.97	13.82	16.4 %	ACCEPTABLE
767	-3.62	11.88	13.77	19.7 %	ACCEPTABLE
768	-3.60	11.86	13.75	19.7 %	ACCEPTABLE
769	-3.67	11.96	13.82	16.4 %	ACCEPTABLE
770	-3.61	11.91	13.76	16.5 %	ACCEPTABLE
771	-3.65	11.90	13.80	19.7 %	ACCEPTABLE
772	-3.67	11.96	13.82	16.4 %	ACCEPTABLE
773	-3.62	11.92	13.77	16.4 %	ACCEPTABLE
774	-3.64	12.02	13.87	19.7 %	ACCEPTABLE
775	-3.59	11.98	13.82	16.7 %	ACCEPTABLE
776	-3.63	11.97	13.82	19.7 %	ACCEPTABLE

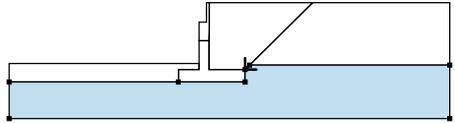


Input data (Stage of construction 2)

Assigning and surfaces

No.	Surface position	Coordinates of surface points [m]				Assigned soil	
		x	z	x	z		
1		-0.40	11.82	-0.40	9.15	Material of structure	
		-1.40	9.15	-1.40	6.65		
		-0.05	6.65	0.00	8.15		
		0.00	9.15	0.00	11.82		
2		32.46	3.32	32.46	11.82	Suelo residual arcillosa de consistencia firme	
		13.92	11.82	5.42	3.32		
3		-0.05	2.70	4.80	2.70	Material de relleno importado	
		5.42	3.32	13.92	11.82		
		0.00	11.82	0.00	9.15		
		0.00	8.15	-0.05	6.65		
4		-1.40	2.70	-4.20	2.70	Material of structure	
		-4.20	1.00	4.80	1.00		
		4.80	2.70	-0.05	2.70		
		-0.05	6.65	-1.40	6.65		
		-1.40	3.50				
5		-4.20	1.00	-4.20	2.70	Suelo residual arcillosa de consistencia firme	
		-1.40	2.70	-1.40	3.50		
		-27.05	3.50	-27.05	1.00		



No.	Surface position	Coordinates of surface points [m]				Assigned soil
		x	z	x	z	
6		5.42	3.32	4.80	2.70	Roca sedimentaria meteorizada
		4.80	1.00	-4.20	1.00	
		-27.05	1.00	-27.05	-4.00	
		32.46	-4.00	32.46	3.32	
						

Surcharge

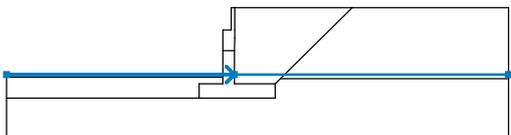
No.	Surcharge		Type	Type of action	Location z [m]	Origin x [m]	Length l [m]	Width b [m]	Slope α [°]	Magnitude		
	new	change								q, q ₁ , f, F, x	q ₂ , z	unit
1	No	No	line	permanent	z = 9.15	x = -0.90			-2.30	300.02		kN/m

Surcharges

No.	Name
1	Bridge

Water

Water type : GWT

No.	GWT location	Coordinates of GWT points [m]					
		x	z	x	z	x	z
1		-27.05	3.82	-0.05	3.82	32.46	3.82

Tensile crack

Tensile crack not input.

Earthquake

Horizontal seismic coefficient : $K_h = 0.3000$

Vertical seismic coefficient : $K_v = 0.2000$

Settings of the stage of construction



Design situation : Service I

Results (Stage of construction 2)

Analysis 1 (stage 2)

Circular slip surface

Slip surface parameters					
Center :	x =	-0.11 [m]	Angles :	$\alpha_1 =$	-47.93 [°]
	z =	27.64 [m]		$\alpha_2 =$	63.95 [°]
Radius :	R =	36.03 [m]			
The slip surface after optimization.					

Slope stability verification (Morgenstern-Price)

Utilization : 39.3 %

CDR CDR: 2.543

Slope stability ACCEPTABLE

Optimization of circular slip surface (Morgenstern-Price)

No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
1	-3.63	11.97	13.82	29.3 %	ACCEPTABLE
2	-3.63	11.97	13.82	29.3 %	ACCEPTABLE
3	-3.63	11.97	13.82	29.3 %	ACCEPTABLE
4	-6.52	32.91	35.48	33.4 %	ACCEPTABLE
5	1.40	16.96	31.29	36.6 %	ACCEPTABLE
6	1.77	14.28	30.59	34.9 %	ACCEPTABLE
7	1.90	13.34	30.39	34.2 %	ACCEPTABLE
8	0.06	18.95	21.59	31.5 %	ACCEPTABLE
9	1.40	16.96	31.29	36.6 %	ACCEPTABLE
10	1.40	16.96	31.29	36.6 %	ACCEPTABLE
11	1.31	14.93	23.28	32.1 %	ACCEPTABLE
12	4.11	23.27	30.39	36.3 %	ACCEPTABLE
13	1.54	15.97	31.00	36.0 %	ACCEPTABLE
14	1.65	15.16	30.79	35.5 %	ACCEPTABLE
15	0.74	17.92	24.42	33.6 %	ACCEPTABLE
16	1.40	16.96	31.29	36.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
17	-91.32	675.67	675.26	6.7 %	ACCEPTABLE
18	1.40	16.96	31.29	36.6 %	ACCEPTABLE
19	4.60	12.43	27.67	31.8 %	ACCEPTABLE
20	1.25	16.21	26.14	34.0 %	ACCEPTABLE
21	3.27	20.99	30.40	36.7 %	ACCEPTABLE
22	6.56	15.86	26.02	32.2 %	ACCEPTABLE
23	2.91	20.26	25.52	33.8 %	ACCEPTABLE
24	-1.63	38.44	43.10	37.7 %	ACCEPTABLE
25	1.53	32.20	36.87	37.1 %	ACCEPTABLE
26	-3.20	42.12	42.78	32.3 %	ACCEPTABLE
27	-2.01	55.15	55.25	31.7 %	ACCEPTABLE
28	3.34	20.48	30.19	36.5 %	ACCEPTABLE
29	1.69	31.22	36.21	37.3 %	ACCEPTABLE
30	-0.62	27.04	31.54	36.0 %	ACCEPTABLE
31	-7.25	55.15	55.24	13.4 %	ACCEPTABLE
32	-4.31	48.66	48.36	14.7 %	ACCEPTABLE
33	-1.81	19.89	29.93	37.0 %	ACCEPTABLE
34	1.19	16.51	26.25	34.2 %	ACCEPTABLE
35	-3.02	27.71	33.98	37.5 %	ACCEPTABLE
36	-0.16	24.36	29.93	36.1 %	ACCEPTABLE
37	-1.81	19.89	29.93	37.0 %	ACCEPTABLE
38	-0.56	26.74	31.36	36.0 %	ACCEPTABLE
39	-1.62	38.41	43.07	37.7 %	ACCEPTABLE
40	1.43	32.86	37.32	37.1 %	ACCEPTABLE
41	-129.60	947.57	949.65	6.4 %	ACCEPTABLE
42	-1.62	38.41	43.07	37.7 %	ACCEPTABLE
43	0.37	34.91	39.37	37.4 %	ACCEPTABLE
44	-2.62	40.98	42.84	34.1 %	ACCEPTABLE
45	-3.98	55.16	56.50	33.0 %	ACCEPTABLE
46	-1.57	47.93	49.49	34.1 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
47	1.80	25.39	33.35	38.2 %	ACCEPTABLE
48	3.87	22.24	30.24	36.5 %	ACCEPTABLE
49	1.39	25.57	30.63	36.0 %	ACCEPTABLE
50	2.64	29.99	34.75	36.8 %	ACCEPTABLE
51	4.79	16.51	27.87	34.2 %	ACCEPTABLE
52	3.91	21.99	30.11	36.4 %	ACCEPTABLE
53	2.41	19.57	27.46	35.1 %	ACCEPTABLE
54	1.15	26.97	31.50	35.9 %	ACCEPTABLE
55	-1.70	25.38	33.34	38.3 %	ACCEPTABLE
56	1.86	24.97	33.12	38.2 %	ACCEPTABLE
57	-2.11	25.56	30.62	36.1 %	ACCEPTABLE
58	0.43	34.56	39.12	37.5 %	ACCEPTABLE
59	2.77	18.92	30.33	36.7 %	ACCEPTABLE
60	1.80	25.38	33.34	38.2 %	ACCEPTABLE
61	0.73	21.67	33.03	38.6 %	ACCEPTABLE
62	2.79	18.75	30.27	36.6 %	ACCEPTABLE
63	0.48	21.54	29.90	36.8 %	ACCEPTABLE
64	1.85	25.10	33.19	38.2 %	ACCEPTABLE
65	0.73	21.71	33.05	38.6 %	ACCEPTABLE
66	2.79	18.79	30.28	36.6 %	ACCEPTABLE
67	0.48	21.59	29.92	36.8 %	ACCEPTABLE
68	1.84	25.14	33.21	38.2 %	ACCEPTABLE
69	0.72	21.75	33.06	38.6 %	ACCEPTABLE
70	2.79	18.83	30.30	36.6 %	ACCEPTABLE
71	0.47	21.63	29.93	36.8 %	ACCEPTABLE
72	1.83	25.20	33.24	38.2 %	ACCEPTABLE
73	0.71	21.80	33.09	38.6 %	ACCEPTABLE
74	2.77	18.88	30.32	36.7 %	ACCEPTABLE
75	0.46	21.68	29.96	36.8 %	ACCEPTABLE
76	1.82	25.26	33.27	38.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
77	0.71	21.84	33.10	38.6 %	ACCEPTABLE
78	3.48	14.12	28.87	33.8 %	ACCEPTABLE
79	0.81	21.12	32.80	38.4 %	ACCEPTABLE
80	2.77	18.90	30.33	36.6 %	ACCEPTABLE
81	1.48	16.35	31.11	36.2 %	ACCEPTABLE
82	1.28	16.58	27.89	35.0 %	ACCEPTABLE
83	0.32	22.59	30.41	37.0 %	ACCEPTABLE
84	-0.78	19.21	30.44	37.2 %	ACCEPTABLE
85	0.01	13.97	28.83	34.4 %	ACCEPTABLE
86	2.01	12.01	26.75	31.8 %	ACCEPTABLE
87	1.36	16.07	27.73	34.7 %	ACCEPTABLE
88	0.01	13.97	28.83	34.4 %	ACCEPTABLE
89	-0.73	18.90	30.32	37.1 %	ACCEPTABLE
90	1.27	16.64	27.91	35.0 %	ACCEPTABLE
91	0.72	21.79	33.08	38.6 %	ACCEPTABLE
92	2.72	19.22	30.45	36.8 %	ACCEPTABLE
93	-177.43	1287.70	1292.99	6.0 %	ACCEPTABLE
94	0.72	21.79	33.08	38.6 %	ACCEPTABLE
95	2.06	20.02	31.30	37.4 %	ACCEPTABLE
96	0.54	21.82	31.04	37.5 %	ACCEPTABLE
97	0.08	26.29	35.28	39.2 %	ACCEPTABLE
98	1.42	24.40	33.31	38.5 %	ACCEPTABLE
99	-0.18	26.55	33.52	37.9 %	ACCEPTABLE
100	-0.70	31.88	38.59	39.0 %	ACCEPTABLE
101	0.72	29.20	36.01	38.5 %	ACCEPTABLE
102	2.05	20.08	31.32	37.4 %	ACCEPTABLE
103	0.16	25.77	35.00	39.2 %	ACCEPTABLE
104	1.47	24.04	33.12	38.4 %	ACCEPTABLE
105	0.71	21.80	33.09	38.6 %	ACCEPTABLE
106	0.44	22.44	31.33	37.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
107	-0.29	27.21	33.90	37.9 %	ACCEPTABLE
108	-0.25	19.86	31.23	37.7 %	ACCEPTABLE
109	1.08	18.29	29.56	36.3 %	ACCEPTABLE
110	-0.77	23.39	32.80	38.6 %	ACCEPTABLE
111	0.54	21.82	31.04	37.5 %	ACCEPTABLE
112	-0.25	19.86	31.23	37.7 %	ACCEPTABLE
113	-0.86	24.04	33.12	38.6 %	ACCEPTABLE
114	0.47	22.29	31.26	37.6 %	ACCEPTABLE
115	0.08	26.29	35.28	39.2 %	ACCEPTABLE
116	1.42	24.38	33.30	38.5 %	ACCEPTABLE
117	0.08	26.29	35.28	39.2 %	ACCEPTABLE
118	0.96	25.11	34.01	38.7 %	ACCEPTABLE
119	-0.10	26.50	34.12	38.4 %	ACCEPTABLE
120	0.52	28.18	35.71	38.8 %	ACCEPTABLE
121	0.06	26.47	35.38	39.3 %	ACCEPTABLE
122	0.94	25.28	34.09	38.7 %	ACCEPTABLE
123	-0.12	26.69	34.23	38.3 %	ACCEPTABLE
124	-0.45	30.07	37.45	39.2 %	ACCEPTABLE
125	0.49	28.37	35.82	38.8 %	ACCEPTABLE
126	1.39	22.17	32.56	38.2 %	ACCEPTABLE
127	0.10	26.15	35.20	39.3 %	ACCEPTABLE
128	0.98	24.98	33.93	38.7 %	ACCEPTABLE
129	-0.08	26.36	34.03	38.3 %	ACCEPTABLE
130	0.54	28.03	35.62	38.8 %	ACCEPTABLE
131	0.08	26.34	35.31	39.3 %	ACCEPTABLE
132	0.96	25.15	34.03	38.7 %	ACCEPTABLE
133	-0.10	26.56	34.15	38.3 %	ACCEPTABLE
134	0.51	28.22	35.73	38.8 %	ACCEPTABLE
135	1.40	22.05	32.51	38.3 %	ACCEPTABLE
136	1.00	24.83	33.85	38.7 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
137	0.31	23.78	32.66	38.2 %	ACCEPTABLE
138	-0.15	26.93	34.36	38.3 %	ACCEPTABLE
139	-0.59	25.07	33.98	38.9 %	ACCEPTABLE
140	-0.13	21.88	32.43	38.5 %	ACCEPTABLE
141	0.76	20.77	31.26	37.6 %	ACCEPTABLE
142	-0.50	24.46	33.67	38.9 %	ACCEPTABLE
143	0.38	23.34	32.44	38.1 %	ACCEPTABLE
144	-0.13	21.88	32.44	38.4 %	ACCEPTABLE
145	-0.55	24.83	33.86	38.9 %	ACCEPTABLE
146	0.34	23.63	32.59	38.2 %	ACCEPTABLE
147	0.08	26.34	35.31	39.3 %	ACCEPTABLE
148	0.97	25.06	33.98	38.7 %	ACCEPTABLE
149	0.08	26.33	35.30	39.3 %	ACCEPTABLE
150	0.66	25.58	34.47	38.9 %	ACCEPTABLE
151	-0.04	26.50	34.54	38.7 %	ACCEPTABLE
152	-0.25	28.66	36.61	39.3 %	ACCEPTABLE
153	0.33	27.89	35.75	39.0 %	ACCEPTABLE
154	-0.39	28.90	35.93	38.6 %	ACCEPTABLE
155	0.02	30.07	37.05	38.9 %	ACCEPTABLE
156	0.67	25.49	34.42	38.9 %	ACCEPTABLE
157	-0.22	28.44	36.48	39.2 %	ACCEPTABLE
158	0.37	27.58	35.57	39.0 %	ACCEPTABLE
159	0.08	26.34	35.31	39.3 %	ACCEPTABLE
160	-0.10	26.87	34.74	38.6 %	ACCEPTABLE
161	-0.43	29.16	36.09	38.6 %	ACCEPTABLE
162	-0.34	25.33	34.33	38.9 %	ACCEPTABLE
163	0.25	24.51	33.47	38.5 %	ACCEPTABLE
164	-0.63	27.32	35.42	39.0 %	ACCEPTABLE
165	-0.04	26.50	34.53	38.7 %	ACCEPTABLE
166	-0.35	25.33	34.34	38.9 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
167	-0.07	26.71	34.66	38.7 %	ACCEPTABLE
168	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
169	0.32	27.90	35.75	39.0 %	ACCEPTABLE
170	-0.39	28.91	35.94	38.6 %	ACCEPTABLE
171	0.01	30.07	37.05	38.9 %	ACCEPTABLE
172	0.67	25.49	34.42	38.9 %	ACCEPTABLE
173	-0.22	28.44	36.48	39.2 %	ACCEPTABLE
174	0.37	27.58	35.57	39.0 %	ACCEPTABLE
175	0.08	26.34	35.31	39.3 %	ACCEPTABLE
176	-0.10	26.88	34.75	38.6 %	ACCEPTABLE
177	-0.43	29.17	36.10	38.6 %	ACCEPTABLE
178	-0.34	25.34	34.34	38.9 %	ACCEPTABLE
179	0.25	24.52	33.48	38.6 %	ACCEPTABLE
180	-0.63	27.33	35.43	39.0 %	ACCEPTABLE
181	-0.04	26.51	34.54	38.7 %	ACCEPTABLE
182	-0.35	25.34	34.34	38.9 %	ACCEPTABLE
183	-0.07	26.72	34.67	38.7 %	ACCEPTABLE
184	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
185	0.34	27.77	35.68	39.0 %	ACCEPTABLE
186	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
187	0.13	28.17	36.05	39.1 %	ACCEPTABLE
188	-0.34	28.84	36.17	38.8 %	ACCEPTABLE
189	-0.07	29.59	36.90	39.0 %	ACCEPTABLE
190	0.37	26.52	35.12	39.1 %	ACCEPTABLE
191	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
192	0.15	28.03	35.97	39.1 %	ACCEPTABLE
193	-0.32	28.68	36.07	38.8 %	ACCEPTABLE
194	-0.47	30.20	37.54	39.2 %	ACCEPTABLE
195	-0.05	29.44	36.80	39.0 %	ACCEPTABLE
196	-0.25	28.64	36.60	39.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
197	0.39	26.38	35.04	39.1 %	ACCEPTABLE
198	-0.21	28.38	36.45	39.3 %	ACCEPTABLE
199	0.18	27.80	35.84	39.1 %	ACCEPTABLE
200	-0.01	26.96	35.65	39.3 %	ACCEPTABLE
201	-0.13	27.33	35.29	38.9 %	ACCEPTABLE
202	-0.35	28.84	36.17	38.8 %	ACCEPTABLE
203	0.10	25.71	34.39	38.8 %	ACCEPTABLE
204	-0.09	27.08	35.15	38.9 %	ACCEPTABLE
205	-0.11	27.22	35.23	38.9 %	ACCEPTABLE
206	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
207	0.17	27.93	35.91	39.1 %	ACCEPTABLE
208	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
209	0.02	28.20	36.16	39.2 %	ACCEPTABLE
210	-0.29	28.63	36.23	39.0 %	ACCEPTABLE
211	-0.11	29.13	36.71	39.1 %	ACCEPTABLE
212	-0.24	28.60	36.58	39.3 %	ACCEPTABLE
213	0.18	27.08	35.52	39.1 %	ACCEPTABLE
214	-0.22	28.43	36.48	39.3 %	ACCEPTABLE
215	0.05	28.04	36.07	39.1 %	ACCEPTABLE
216	-0.16	27.73	35.70	39.0 %	ACCEPTABLE
217	-0.57	29.13	36.71	39.1 %	ACCEPTABLE
218	-0.31	28.73	36.29	38.9 %	ACCEPTABLE
219	-0.27	27.00	35.48	39.1 %	ACCEPTABLE
220	0.00	26.62	35.08	39.0 %	ACCEPTABLE
221	-0.14	27.56	35.60	39.0 %	ACCEPTABLE
222	-0.27	27.00	35.48	39.1 %	ACCEPTABLE
223	-0.15	27.65	35.66	39.0 %	ACCEPTABLE
224	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
225	0.03	28.13	36.12	39.1 %	ACCEPTABLE
226	-0.23	28.52	36.53	39.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
227	-0.06	28.31	36.28	39.2 %	ACCEPTABLE
228	-0.27	28.60	36.33	39.1 %	ACCEPTABLE
229	-0.33	29.26	36.96	39.2 %	ACCEPTABLE
230	-0.15	28.92	36.64	39.1 %	ACCEPTABLE
231	-0.24	28.58	36.57	39.3 %	ACCEPTABLE
232	0.05	27.55	35.85	39.2 %	ACCEPTABLE
233	-0.22	28.46	36.50	39.3 %	ACCEPTABLE
234	-0.05	28.20	36.22	39.2 %	ACCEPTABLE
235	-0.13	27.81	36.13	39.3 %	ACCEPTABLE
236	0.04	27.59	35.88	39.2 %	ACCEPTABLE
237	-0.17	27.88	35.92	39.1 %	ACCEPTABLE
238	-0.23	28.50	36.52	39.2 %	ACCEPTABLE
239	-0.05	28.19	36.22	39.2 %	ACCEPTABLE
240	-0.14	27.85	36.14	39.3 %	ACCEPTABLE
241	0.14	26.86	35.47	39.2 %	ACCEPTABLE
242	-0.12	27.74	36.08	39.3 %	ACCEPTABLE
243	0.05	27.49	35.82	39.2 %	ACCEPTABLE
244	-0.03	27.11	35.73	39.3 %	ACCEPTABLE
245	-0.09	27.29	35.59	39.1 %	ACCEPTABLE
246	-0.18	27.94	35.95	39.1 %	ACCEPTABLE
247	-0.26	27.54	35.85	39.2 %	ACCEPTABLE
248	-0.15	26.81	35.44	39.2 %	ACCEPTABLE
249	0.02	26.56	35.18	39.1 %	ACCEPTABLE
250	-0.07	27.18	35.53	39.1 %	ACCEPTABLE
251	-0.15	26.81	35.44	39.2 %	ACCEPTABLE
252	-0.25	27.49	35.82	39.2 %	ACCEPTABLE
253	-0.08	27.24	35.56	39.1 %	ACCEPTABLE
254	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
255	0.04	27.54	35.85	39.2 %	ACCEPTABLE
256	-0.13	27.79	36.11	39.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
257	-0.02	27.66	35.96	39.2 %	ACCEPTABLE
258	-0.16	27.86	35.99	39.2 %	ACCEPTABLE
259	-0.08	28.06	36.19	39.2 %	ACCEPTABLE
260	-0.13	27.83	36.13	39.3 %	ACCEPTABLE
261	0.05	27.17	35.68	39.2 %	ACCEPTABLE
262	-0.12	27.76	36.09	39.3 %	ACCEPTABLE
263	-0.01	27.59	35.92	39.2 %	ACCEPTABLE
264	-0.10	27.46	35.77	39.2 %	ACCEPTABLE
265	-0.16	27.89	36.01	39.2 %	ACCEPTABLE
266	-0.21	27.63	35.94	39.2 %	ACCEPTABLE
267	-0.03	26.97	35.49	39.1 %	ACCEPTABLE
268	-0.20	27.56	35.90	39.2 %	ACCEPTABLE
269	-0.21	27.59	35.92	39.2 %	ACCEPTABLE
270	-0.10	27.43	35.75	39.2 %	ACCEPTABLE
271	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
272	-0.02	27.63	35.94	39.2 %	ACCEPTABLE
273	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
274	-0.06	27.71	36.01	39.3 %	ACCEPTABLE
275	-0.15	27.84	36.04	39.2 %	ACCEPTABLE
276	-0.10	27.97	36.16	39.2 %	ACCEPTABLE
277	-0.13	27.82	36.13	39.3 %	ACCEPTABLE
278	-0.13	27.77	36.10	39.3 %	ACCEPTABLE
279	-0.05	27.66	35.99	39.3 %	ACCEPTABLE
280	-0.11	27.58	35.89	39.2 %	ACCEPTABLE
281	-0.15	27.87	36.05	39.2 %	ACCEPTABLE
282	-0.18	27.69	36.00	39.3 %	ACCEPTABLE
283	-0.06	27.25	35.70	39.2 %	ACCEPTABLE
284	-0.18	27.64	35.97	39.3 %	ACCEPTABLE
285	-0.10	27.53	35.86	39.2 %	ACCEPTABLE
286	-0.18	27.66	35.99	39.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
287	-0.11	27.56	35.87	39.2 %	ACCEPTABLE
288	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
289	-0.06	27.69	36.00	39.3 %	ACCEPTABLE
290	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
291	-0.08	27.74	36.05	39.3 %	ACCEPTABLE
292	-0.14	27.83	36.07	39.2 %	ACCEPTABLE
293	-0.11	27.91	36.15	39.3 %	ACCEPTABLE
294	-0.13	27.81	36.12	39.3 %	ACCEPTABLE
295	-0.13	27.78	36.10	39.3 %	ACCEPTABLE
296	-0.08	27.71	36.03	39.3 %	ACCEPTABLE
297	-0.10	27.59	36.00	39.3 %	ACCEPTABLE
298	-0.12	27.66	35.97	39.3 %	ACCEPTABLE
299	-0.14	27.85	36.08	39.2 %	ACCEPTABLE
300	-0.16	27.73	36.04	39.3 %	ACCEPTABLE
301	-0.16	27.69	36.02	39.3 %	ACCEPTABLE
302	-0.11	27.62	35.95	39.2 %	ACCEPTABLE
303	-0.16	27.71	36.03	39.3 %	ACCEPTABLE
304	-0.11	27.64	35.96	39.3 %	ACCEPTABLE
305	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
306	-0.08	27.72	36.04	39.3 %	ACCEPTABLE
307	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
308	-0.10	27.76	36.07	39.3 %	ACCEPTABLE
309	-0.14	27.82	36.09	39.3 %	ACCEPTABLE
310	-0.15	27.93	36.19	39.3 %	ACCEPTABLE
311	-0.12	27.88	36.14	39.3 %	ACCEPTABLE
312	-0.13	27.80	36.12	39.3 %	ACCEPTABLE
313	-0.08	27.61	35.99	39.3 %	ACCEPTABLE
314	-0.13	27.78	36.11	39.3 %	ACCEPTABLE
315	-0.10	27.74	36.06	39.3 %	ACCEPTABLE
316	-0.11	27.66	36.04	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
317	-0.08	27.62	35.99	39.3 %	ACCEPTABLE
318	-0.12	27.67	36.00	39.3 %	ACCEPTABLE
319	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
320	-0.09	27.73	36.06	39.3 %	ACCEPTABLE
321	-0.11	27.67	36.04	39.3 %	ACCEPTABLE
322	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
323	-0.08	27.60	35.98	39.3 %	ACCEPTABLE
324	-0.12	27.65	35.99	39.3 %	ACCEPTABLE
325	-0.13	27.77	36.10	39.3 %	ACCEPTABLE
326	-0.09	27.71	36.05	39.3 %	ACCEPTABLE
327	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
328	-0.10	27.62	36.02	39.3 %	ACCEPTABLE
329	-0.07	27.58	35.97	39.3 %	ACCEPTABLE
330	-0.10	27.54	35.92	39.2 %	ACCEPTABLE
331	-0.15	27.71	36.04	39.3 %	ACCEPTABLE
332	-0.12	27.66	35.99	39.3 %	ACCEPTABLE
333	-0.13	27.58	35.97	39.3 %	ACCEPTABLE
334	-0.13	27.57	35.96	39.3 %	ACCEPTABLE
335	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
336	-0.08	27.59	35.98	39.3 %	ACCEPTABLE
337	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
338	-0.09	27.61	36.00	39.3 %	ACCEPTABLE
339	-0.12	27.65	36.00	39.3 %	ACCEPTABLE
340	-0.12	27.72	36.07	39.3 %	ACCEPTABLE
341	-0.10	27.69	36.04	39.3 %	ACCEPTABLE
342	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
343	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
344	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
345	-0.10	27.57	35.96	39.3 %	ACCEPTABLE
346	-0.14	27.68	36.04	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
347	-0.12	27.66	36.01	39.3 %	ACCEPTABLE
348	-0.12	27.60	35.99	39.3 %	ACCEPTABLE
349	-0.12	27.59	35.98	39.3 %	ACCEPTABLE
350	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
351	-0.12	27.59	35.98	39.3 %	ACCEPTABLE
352	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
353	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
354	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
355	-0.28	20.37	22.41	31.7 %	ACCEPTABLE
356	-1.46	37.25	42.23	38.0 %	ACCEPTABLE
357	7.61	13.41	24.70	29.5 %	ACCEPTABLE
358	-99.67	734.97	735.08	6.4 %	ACCEPTABLE
359	-20.19	171.40	167.98	9.8 %	ACCEPTABLE
360	-1.19	35.35	40.90	38.4 %	ACCEPTABLE
361	7.80	12.32	24.47	28.6 %	ACCEPTABLE
362	-49.36	377.54	374.72	7.3 %	ACCEPTABLE
363	-12.57	128.06	124.58	10.4 %	ACCEPTABLE
364	6.29	20.88	27.50	33.9 %	ACCEPTABLE
365	1.93	13.16	30.36	34.1 %	ACCEPTABLE
366	-24.39	128.10	124.63	4.4 %	ACCEPTABLE
367	-29.53	145.10	142.34	4.3 %	ACCEPTABLE
368	-5.93	23.18	28.72	34.9 %	ACCEPTABLE
369	-5.53	20.88	27.51	35.0 %	ACCEPTABLE
370	1.25	13.89	19.31	29.3 %	ACCEPTABLE
371	-1.19	35.35	40.90	38.4 %	ACCEPTABLE
372	-61.94	466.93	464.76	7.0 %	ACCEPTABLE
373	-1.19	35.35	40.90	38.4 %	ACCEPTABLE
374	3.98	24.05	30.81	36.5 %	ACCEPTABLE
375	-3.04	37.60	37.64	31.5 %	ACCEPTABLE
376	-2.22	62.25	61.09	1.8 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
377	-1.19	35.32	40.88	38.4 %	ACCEPTABLE
378	5.76	13.11	26.53	31.4 %	ACCEPTABLE
379	-0.58	30.97	38.01	39.1 %	ACCEPTABLE
380	4.58	20.39	28.98	35.7 %	ACCEPTABLE
381	-1.75	30.87	32.34	33.4 %	ACCEPTABLE
382	-6.22	71.04	70.62	10.3 %	ACCEPTABLE
383	-0.16	49.58	49.77	32.6 %	ACCEPTABLE
384	4.26	22.33	29.91	36.2 %	ACCEPTABLE
385	1.49	16.29	31.09	36.1 %	ACCEPTABLE
386	1.14	15.82	23.58	32.6 %	ACCEPTABLE
387	-3.66	40.79	40.31	3.4 %	ACCEPTABLE
388	-3.84	23.67	30.60	36.8 %	ACCEPTABLE
389	-2.82	17.42	27.77	35.7 %	ACCEPTABLE
390	1.43	14.28	23.07	31.7 %	ACCEPTABLE
391	-3.62	22.33	29.90	36.8 %	ACCEPTABLE
392	0.89	17.10	24.07	33.3 %	ACCEPTABLE
393	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
394	4.58	20.39	28.98	35.7 %	ACCEPTABLE
395	-1.76	30.89	32.35	33.3 %	ACCEPTABLE
396	-0.16	49.58	49.77	32.6 %	ACCEPTABLE
397	4.26	22.34	29.91	36.2 %	ACCEPTABLE
398	1.49	16.29	31.09	36.1 %	ACCEPTABLE
399	1.13	15.83	23.59	32.7 %	ACCEPTABLE
400	-3.66	40.80	40.32	3.4 %	ACCEPTABLE
401	-3.84	23.68	30.61	36.8 %	ACCEPTABLE
402	-2.82	17.42	27.77	35.7 %	ACCEPTABLE
403	1.43	14.29	23.08	31.7 %	ACCEPTABLE
404	-3.62	22.33	29.90	36.8 %	ACCEPTABLE
405	0.89	17.11	24.08	33.3 %	ACCEPTABLE
406	-0.58	30.98	38.02	39.1 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
407	4.04	23.68	30.61	36.4 %	ACCEPTABLE
408	-91.34	675.84	675.42	6.5 %	ACCEPTABLE
409	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
410	2.62	25.22	32.53	37.4 %	ACCEPTABLE
411	-1.44	31.86	34.79	35.1 %	ACCEPTABLE
412	0.17	41.09	43.43	35.3 %	ACCEPTABLE
413	3.96	16.50	28.68	34.7 %	ACCEPTABLE
414	2.63	25.16	32.50	37.4 %	ACCEPTABLE
415	0.93	20.24	32.44	38.1 %	ACCEPTABLE
416	0.39	21.15	28.20	35.8 %	ACCEPTABLE
417	-2.09	35.68	37.63	34.1 %	ACCEPTABLE
418	-2.78	26.16	33.06	37.6 %	ACCEPTABLE
419	-1.23	16.14	28.57	35.4 %	ACCEPTABLE
420	1.77	13.10	25.27	31.9 %	ACCEPTABLE
421	0.66	19.58	27.46	35.4 %	ACCEPTABLE
422	-1.23	16.14	28.57	35.4 %	ACCEPTABLE
423	0.37	21.26	28.25	35.8 %	ACCEPTABLE
424	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
425	2.47	26.16	33.06	37.5 %	ACCEPTABLE
426	-129.75	948.74	950.83	6.2 %	ACCEPTABLE
427	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
428	1.46	27.66	34.63	38.3 %	ACCEPTABLE
429	-1.16	31.84	35.99	36.5 %	ACCEPTABLE
430	0.06	37.05	40.91	37.0 %	ACCEPTABLE
431	2.52	20.62	31.02	37.3 %	ACCEPTABLE
432	1.55	27.08	34.29	38.3 %	ACCEPTABLE
433	0.01	24.52	31.42	37.1 %	ACCEPTABLE
434	-3.44	37.04	40.90	36.4 %	ACCEPTABLE
435	-1.44	33.62	37.24	36.1 %	ACCEPTABLE
436	-2.06	27.78	34.70	38.2 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
437	1.07	17.90	28.35	35.6 %	ACCEPTABLE
438	-1.73	25.61	33.46	38.3 %	ACCEPTABLE
439	0.21	23.27	30.76	37.0 %	ACCEPTABLE
440	-1.95	27.07	34.29	38.3 %	ACCEPTABLE
441	0.05	24.29	31.30	37.1 %	ACCEPTABLE
442	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
443	1.44	27.79	34.71	38.3 %	ACCEPTABLE
444	-177.65	1289.07	1294.38	6.2 %	ACCEPTABLE
445	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
446	0.75	28.99	35.89	38.6 %	ACCEPTABLE
447	-0.96	31.65	36.70	37.4 %	ACCEPTABLE
448	-0.11	34.79	39.69	37.8 %	ACCEPTABLE
449	1.52	23.70	32.96	38.4 %	ACCEPTABLE
450	0.84	28.37	35.51	38.6 %	ACCEPTABLE
451	0.18	25.58	34.90	39.2 %	ACCEPTABLE
452	1.52	23.71	32.96	38.4 %	ACCEPTABLE
453	-0.07	25.79	33.08	37.8 %	ACCEPTABLE
454	-0.58	30.99	38.02	39.1 %	ACCEPTABLE
455	0.84	28.37	35.51	38.6 %	ACCEPTABLE
456	2.13	19.53	31.10	37.2 %	ACCEPTABLE
457	1.57	23.38	32.80	38.3 %	ACCEPTABLE
458	0.80	21.22	32.84	38.4 %	ACCEPTABLE
459	0.54	21.79	31.02	37.5 %	ACCEPTABLE
460	-1.50	28.37	35.51	38.6 %	ACCEPTABLE
461	-0.17	26.42	33.44	37.9 %	ACCEPTABLE
462	-0.17	19.31	31.01	37.5 %	ACCEPTABLE
463	1.16	17.76	29.37	36.1 %	ACCEPTABLE
464	-0.68	22.76	32.49	38.4 %	ACCEPTABLE
465	0.63	21.21	30.75	37.3 %	ACCEPTABLE
466	-0.17	19.31	31.01	37.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
467	-0.77	23.38	32.79	38.5 %	ACCEPTABLE
468	0.56	21.66	30.96	37.4 %	ACCEPTABLE
469	0.18	25.59	34.91	39.3 %	ACCEPTABLE
470	1.52	23.71	32.96	38.4 %	ACCEPTABLE
471	-0.07	25.80	33.09	37.8 %	ACCEPTABLE
472	-0.58	30.99	38.02	39.1 %	ACCEPTABLE
473	0.84	28.38	35.52	38.6 %	ACCEPTABLE
474	2.13	19.53	31.10	37.2 %	ACCEPTABLE
475	1.57	23.39	32.80	38.3 %	ACCEPTABLE
476	0.80	21.22	32.84	38.4 %	ACCEPTABLE
477	0.54	21.80	31.03	37.5 %	ACCEPTABLE
478	-0.17	26.43	33.45	37.9 %	ACCEPTABLE
479	-0.17	19.32	31.02	37.5 %	ACCEPTABLE
480	1.16	17.77	29.37	36.1 %	ACCEPTABLE
481	-0.68	22.76	32.50	38.4 %	ACCEPTABLE
482	0.63	21.22	30.76	37.3 %	ACCEPTABLE
483	-0.17	19.32	31.02	37.5 %	ACCEPTABLE
484	-0.77	23.39	32.80	38.6 %	ACCEPTABLE
485	0.56	21.66	30.97	37.4 %	ACCEPTABLE
486	0.18	25.59	34.91	39.3 %	ACCEPTABLE
487	1.52	23.71	32.96	38.4 %	ACCEPTABLE
488	0.18	25.59	34.91	39.3 %	ACCEPTABLE
489	1.06	24.42	33.65	38.7 %	ACCEPTABLE
490	0.01	25.77	33.71	38.3 %	ACCEPTABLE
491	0.63	27.40	35.26	38.8 %	ACCEPTABLE
492	0.16	25.75	34.99	39.2 %	ACCEPTABLE
493	1.49	21.42	32.23	38.1 %	ACCEPTABLE
494	1.10	24.12	33.50	38.6 %	ACCEPTABLE
495	0.41	23.08	32.31	38.1 %	ACCEPTABLE
496	-0.04	26.12	33.91	38.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
497	-0.48	24.34	33.61	38.9 %	ACCEPTABLE
498	-0.04	21.25	32.16	38.3 %	ACCEPTABLE
499	0.85	20.16	31.00	37.4 %	ACCEPTABLE
500	-0.40	23.76	33.32	38.8 %	ACCEPTABLE
501	0.47	22.66	32.11	38.0 %	ACCEPTABLE
502	-0.04	21.25	32.16	38.3 %	ACCEPTABLE
503	-0.45	24.12	33.49	38.8 %	ACCEPTABLE
504	0.43	22.94	32.25	38.1 %	ACCEPTABLE
505	0.18	25.59	34.91	39.3 %	ACCEPTABLE
506	1.07	24.34	33.61	38.7 %	ACCEPTABLE
507	0.18	25.59	34.91	39.3 %	ACCEPTABLE
508	0.76	24.85	34.09	38.9 %	ACCEPTABLE
509	0.07	25.73	34.12	38.6 %	ACCEPTABLE
510	-0.13	27.83	36.14	39.3 %	ACCEPTABLE
511	0.44	27.06	35.28	39.0 %	ACCEPTABLE
512	-0.26	28.04	35.43	38.6 %	ACCEPTABLE
513	0.14	29.16	36.50	38.9 %	ACCEPTABLE
514	0.77	24.74	34.03	38.9 %	ACCEPTABLE
515	-0.10	27.60	36.00	39.3 %	ACCEPTABLE
516	0.48	26.84	35.15	39.0 %	ACCEPTABLE
517	-0.23	27.80	35.28	38.6 %	ACCEPTABLE
518	-0.45	30.07	37.46	39.2 %	ACCEPTABLE
519	0.18	28.93	36.36	38.9 %	ACCEPTABLE
520	-0.12	27.76	36.09	39.3 %	ACCEPTABLE
521	0.81	24.55	33.93	38.8 %	ACCEPTABLE
522	0.52	26.55	34.99	38.9 %	ACCEPTABLE
523	0.05	25.85	34.18	38.6 %	ACCEPTABLE
524	-0.86	28.93	36.36	38.9 %	ACCEPTABLE
525	-0.27	28.04	35.42	38.6 %	ACCEPTABLE
526	-0.55	26.73	35.09	39.0 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
527	-0.21	24.40	33.85	38.8 %	ACCEPTABLE
528	0.38	23.60	33.01	38.4 %	ACCEPTABLE
529	0.10	25.51	33.99	38.6 %	ACCEPTABLE
530	-0.21	24.41	33.86	38.8 %	ACCEPTABLE
531	-0.52	26.56	35.00	38.9 %	ACCEPTABLE
532	0.07	25.71	34.10	38.6 %	ACCEPTABLE
533	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
534	0.48	26.85	35.16	39.0 %	ACCEPTABLE
535	-0.23	27.81	35.29	38.6 %	ACCEPTABLE
536	-0.45	30.07	37.46	39.2 %	ACCEPTABLE
537	0.18	28.93	36.36	38.9 %	ACCEPTABLE
538	-0.12	27.76	36.09	39.3 %	ACCEPTABLE
539	0.80	24.55	33.93	38.8 %	ACCEPTABLE
540	0.52	26.56	35.00	38.9 %	ACCEPTABLE
541	0.05	25.86	34.19	38.6 %	ACCEPTABLE
542	-0.86	28.94	36.37	38.9 %	ACCEPTABLE
543	-0.27	28.05	35.43	38.6 %	ACCEPTABLE
544	-0.55	26.74	35.10	39.0 %	ACCEPTABLE
545	-0.21	24.41	33.86	38.8 %	ACCEPTABLE
546	0.38	23.61	33.02	38.5 %	ACCEPTABLE
547	0.10	25.52	34.00	38.6 %	ACCEPTABLE
548	-0.21	24.41	33.87	38.8 %	ACCEPTABLE
549	-0.52	26.56	35.00	38.9 %	ACCEPTABLE
550	0.07	25.72	34.11	38.6 %	ACCEPTABLE
551	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
552	0.49	26.73	35.09	39.0 %	ACCEPTABLE
553	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
554	0.28	27.12	35.45	39.1 %	ACCEPTABLE
555	-0.19	27.75	35.53	38.9 %	ACCEPTABLE
556	-0.33	29.22	36.94	39.2 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
557	0.09	28.48	36.23	39.1 %	ACCEPTABLE
558	-0.12	27.72	36.07	39.3 %	ACCEPTABLE
559	0.51	25.54	34.59	39.0 %	ACCEPTABLE
560	0.31	26.91	35.33	39.1 %	ACCEPTABLE
561	0.00	26.45	34.79	38.9 %	ACCEPTABLE
562	-0.21	27.90	35.62	38.9 %	ACCEPTABLE
563	-0.17	25.44	34.54	39.0 %	ACCEPTABLE
564	0.22	24.89	33.96	38.8 %	ACCEPTABLE
565	-0.36	26.76	35.26	39.1 %	ACCEPTABLE
566	0.03	26.21	34.67	38.8 %	ACCEPTABLE
567	-0.17	25.44	34.54	39.0 %	ACCEPTABLE
568	0.02	26.34	34.74	38.9 %	ACCEPTABLE
569	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
570	0.29	27.03	35.40	39.1 %	ACCEPTABLE
571	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
572	0.15	27.29	35.64	39.1 %	ACCEPTABLE
573	-0.16	27.71	35.69	39.0 %	ACCEPTABLE
574	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
575	0.03	28.19	36.15	39.2 %	ACCEPTABLE
576	-0.11	27.68	36.05	39.3 %	ACCEPTABLE
577	0.30	26.21	35.05	39.1 %	ACCEPTABLE
578	0.17	27.14	35.56	39.2 %	ACCEPTABLE
579	-0.03	26.83	35.20	39.0 %	ACCEPTABLE
580	-0.44	28.19	36.16	39.2 %	ACCEPTABLE
581	-0.17	27.80	35.74	39.0 %	ACCEPTABLE
582	-0.14	26.14	35.01	39.1 %	ACCEPTABLE
583	0.12	25.77	34.62	39.0 %	ACCEPTABLE
584	-0.01	26.68	35.11	39.0 %	ACCEPTABLE
585	-0.15	26.14	35.01	39.1 %	ACCEPTABLE
586	-0.02	26.76	35.16	39.0 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
587	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
588	0.16	27.22	35.60	39.2 %	ACCEPTABLE
589	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
590	0.07	27.40	35.76	39.2 %	ACCEPTABLE
591	-0.14	27.68	35.80	39.1 %	ACCEPTABLE
592	-0.02	27.99	36.10	39.2 %	ACCEPTABLE
593	-0.11	27.66	36.04	39.3 %	ACCEPTABLE
594	0.17	26.67	35.36	39.2 %	ACCEPTABLE
595	0.08	27.29	35.71	39.2 %	ACCEPTABLE
596	-0.01	26.93	35.63	39.3 %	ACCEPTABLE
597	-0.06	27.09	35.47	39.1 %	ACCEPTABLE
598	-0.15	27.73	35.83	39.1 %	ACCEPTABLE
599	0.05	26.37	35.07	39.1 %	ACCEPTABLE
600	-0.04	26.99	35.41	39.1 %	ACCEPTABLE
601	-0.05	27.04	35.44	39.1 %	ACCEPTABLE
602	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
603	0.07	27.35	35.74	39.2 %	ACCEPTABLE
604	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
605	0.01	27.47	35.84	39.2 %	ACCEPTABLE
606	-0.13	27.65	35.87	39.2 %	ACCEPTABLE
607	-0.04	27.86	36.07	39.2 %	ACCEPTABLE
608	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
609	-0.14	27.68	35.89	39.2 %	ACCEPTABLE
610	-0.05	27.89	36.09	39.2 %	ACCEPTABLE
611	-0.11	27.67	36.04	39.3 %	ACCEPTABLE
612	0.07	27.01	35.59	39.2 %	ACCEPTABLE
613	-0.10	27.60	36.00	39.3 %	ACCEPTABLE
614	0.01	27.43	35.83	39.3 %	ACCEPTABLE
615	-0.04	27.18	35.77	39.3 %	ACCEPTABLE
616	-0.08	27.30	35.67	39.2 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
617	-0.14	27.72	35.91	39.2 %	ACCEPTABLE
618	-0.12	26.97	35.57	39.2 %	ACCEPTABLE
619	-0.01	26.81	35.40	39.1 %	ACCEPTABLE
620	-0.07	27.22	35.63	39.1 %	ACCEPTABLE
621	-0.12	26.97	35.57	39.2 %	ACCEPTABLE
622	-0.08	27.26	35.65	39.2 %	ACCEPTABLE
623	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
624	0.01	27.47	35.85	39.3 %	ACCEPTABLE
625	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
626	-0.04	27.55	35.92	39.3 %	ACCEPTABLE
627	-0.13	27.67	35.94	39.2 %	ACCEPTABLE
628	-0.07	27.81	36.07	39.3 %	ACCEPTABLE
629	-0.11	27.66	36.04	39.3 %	ACCEPTABLE
630	0.01	27.22	35.74	39.2 %	ACCEPTABLE
631	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
632	-0.20	27.80	36.06	39.3 %	ACCEPTABLE
633	-0.13	27.70	35.95	39.2 %	ACCEPTABLE
634	-0.04	27.08	35.61	39.2 %	ACCEPTABLE
635	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
636	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
637	-0.06	27.58	35.96	39.3 %	ACCEPTABLE
638	-0.12	27.66	35.97	39.3 %	ACCEPTABLE
639	-0.14	27.84	36.14	39.3 %	ACCEPTABLE
640	-0.09	27.75	36.06	39.3 %	ACCEPTABLE
641	-0.11	27.65	36.03	39.3 %	ACCEPTABLE
642	-0.10	27.62	36.01	39.3 %	ACCEPTABLE
643	-0.06	27.55	35.94	39.3 %	ACCEPTABLE
644	-0.17	27.75	36.05	39.3 %	ACCEPTABLE
645	-0.12	27.68	35.98	39.3 %	ACCEPTABLE
646	-0.14	27.56	35.94	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
647	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
648	-0.06	27.56	35.95	39.3 %	ACCEPTABLE
649	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
650	-0.08	27.60	35.98	39.3 %	ACCEPTABLE
651	-0.12	27.65	35.99	39.3 %	ACCEPTABLE
652	-0.13	27.77	36.10	39.3 %	ACCEPTABLE
653	-0.09	27.71	36.05	39.3 %	ACCEPTABLE
654	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
655	-0.10	27.62	36.02	39.3 %	ACCEPTABLE
656	-0.07	27.58	35.97	39.3 %	ACCEPTABLE
657	-0.10	27.54	35.92	39.2 %	ACCEPTABLE
658	-0.15	27.71	36.04	39.3 %	ACCEPTABLE
659	-0.12	27.66	35.99	39.3 %	ACCEPTABLE
660	-0.13	27.58	35.97	39.3 %	ACCEPTABLE
661	-0.13	27.57	35.96	39.3 %	ACCEPTABLE
662	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
663	-0.08	27.59	35.98	39.3 %	ACCEPTABLE
664	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
665	-0.09	27.61	36.00	39.3 %	ACCEPTABLE
666	-0.12	27.65	36.00	39.3 %	ACCEPTABLE
667	-0.12	27.72	36.07	39.3 %	ACCEPTABLE
668	-0.10	27.69	36.04	39.3 %	ACCEPTABLE
669	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
670	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
671	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
672	-0.10	27.57	35.96	39.3 %	ACCEPTABLE
673	-0.14	27.68	36.04	39.3 %	ACCEPTABLE
674	-0.12	27.66	36.01	39.3 %	ACCEPTABLE
675	-0.12	27.60	35.99	39.3 %	ACCEPTABLE
676	-0.12	27.59	35.98	39.3 %	ACCEPTABLE



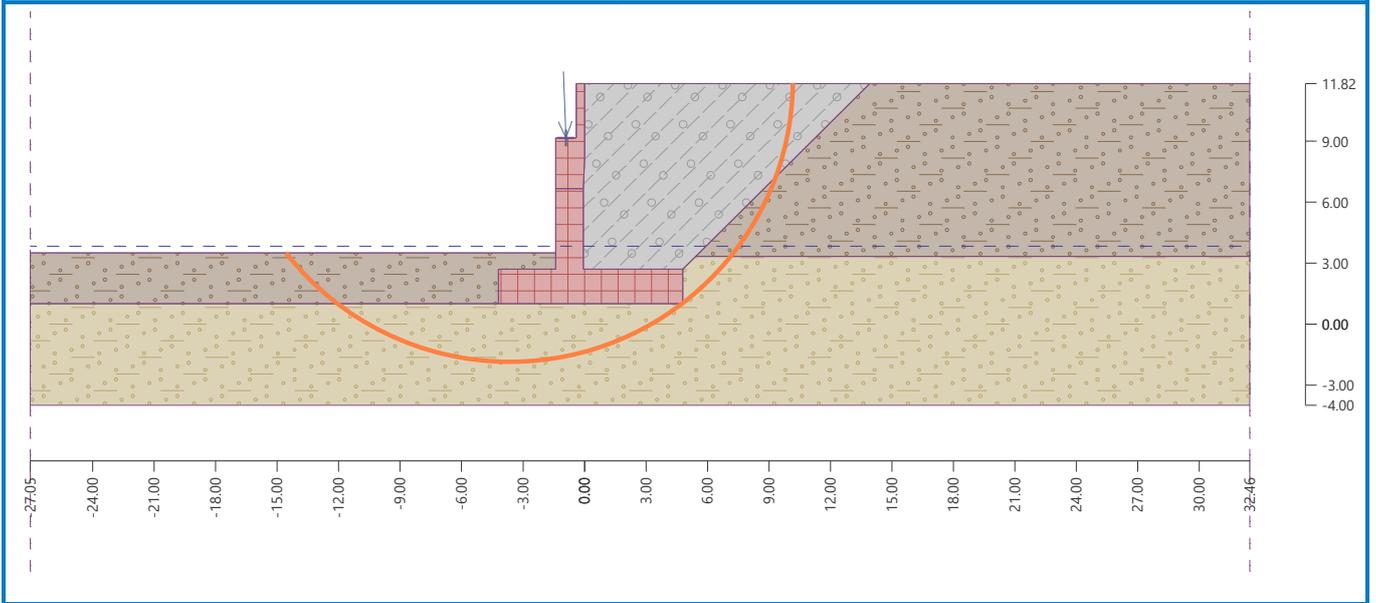
No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
677	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
678	-0.12	27.59	35.98	39.3 %	ACCEPTABLE
679	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
680	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
681	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
682	-0.11	27.64	36.03	39.3 %	ACCEPTABLE

Annexes



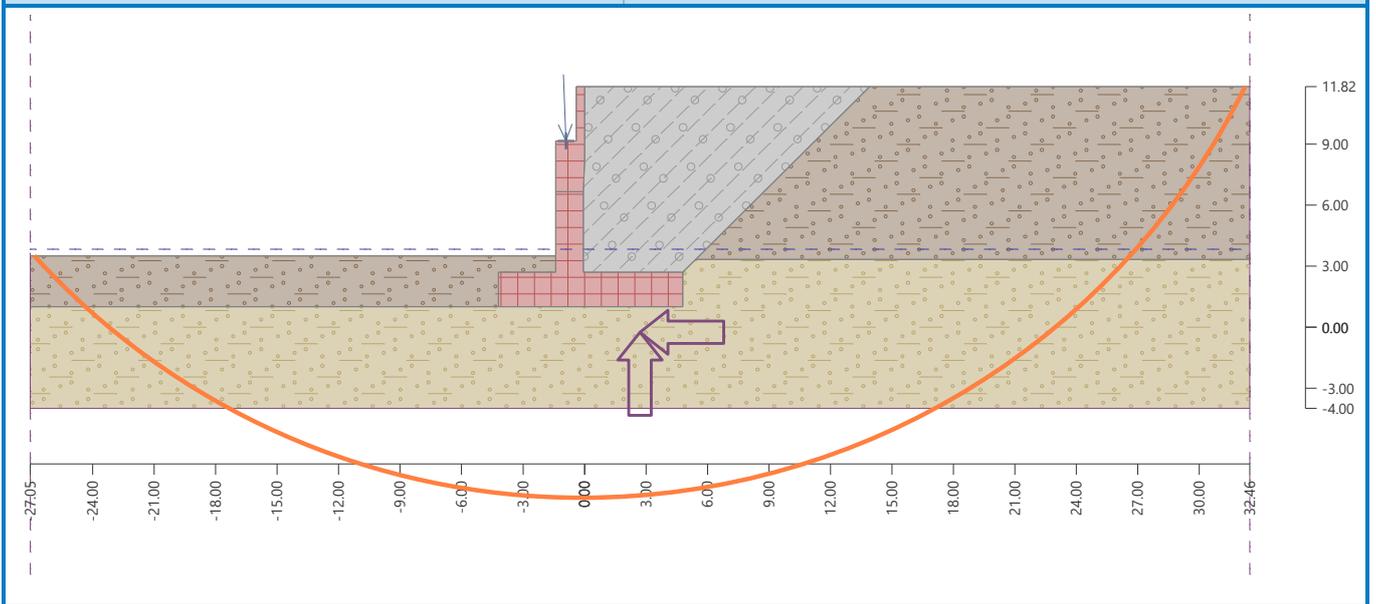
Name : Analysis

Stage - analysis : 1 - 1



Name : Analysis

Stage - analysis : 2 - 1





Slope stability analysis

Input data

Project

Settings

USA - LRFD

Stability analysis

Verification methodology : according to LRFD

Earthquake analysis : Standard

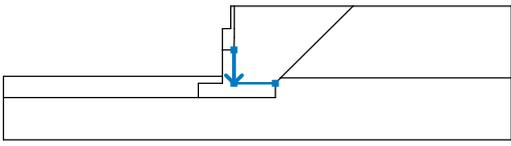
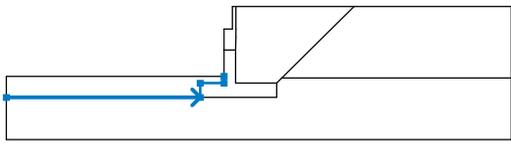
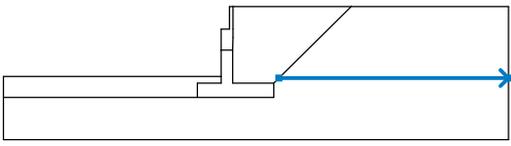
Load factors				
Design situation - Service I				
		Minimum		Maximum
Earth surcharge load (permanent) :	ES =	1.00 [-]	1.00 [-]	1.00 [-]
Live load surcharge :	LL =	0.00 [-]	1.00 [-]	1.00 [-]

Resistance factors				
Design situation - Service I				
Resistance factor on stability :	$\phi_{SS} =$	0.65 [-]		

Interface

No.	Interface location	Coordinates of interface points [m]					
		x	z	x	z	x	z
1		-1.40	6.65	-0.05	6.65	0.00	8.15
		0.00	9.15	0.00	11.82		
2		-27.05	3.50	-1.40	3.50	-1.40	6.65
		-1.40	9.15	-0.40	9.15	-0.40	11.82
		0.00	11.82	13.92	11.82	32.46	11.82
3		-4.20	1.00	4.80	1.00	4.80	2.70
		5.42	3.32	13.92	11.82		

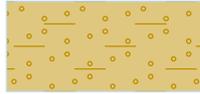


No.	Interface location	Coordinates of interface points [m]					
		x	z	x	z	x	z
4		-0.05	6.65	-0.05	2.70	4.80	2.70
5		-27.05	1.00	-4.20	1.00	-4.20	2.70
		-1.40	2.70	-1.40	3.50		
6		5.42	3.32	32.46	3.32		

Soil parameters - effective stress state

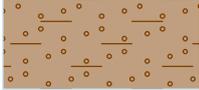
No.	Name	Pattern	Φ_{ef} [°]	C_{ef} [kPa]	γ [kN/m ³]
1	Roca sedimentaria meteorizada		32.00	200.00	20.00
2	Material de relleno importado		35.00	8.00	18.60

Soil parameters - uplift

No.	Name	Pattern	γ_{sat} [kN/m ³]	γ_s [kN/m ³]	n [-]
1	Roca sedimentaria meteorizada		21.00		
2	Material de relleno importado		19.00		

Soil parameters - total stress state



No.	Name	Pattern	c_u [kPa]	γ [kN/m ³]
1	Suelo residual arcillosa de consistencia firme		190.00	20.00

Soil parameters

Suelo residual arcillosa de consistencia firme

Unit weight : $\gamma = 20.00 \text{ kN/m}^3$

Stress-state : total

Cohesion of soil : $c_u = 190.00 \text{ kPa}$

Roca sedimentaria meteorizada

Unit weight : $\gamma = 20.00 \text{ kN/m}^3$

Stress-state : effective

Angle of internal friction : $\varphi_{ef} = 32.00^\circ$

Cohesion of soil : $c_{ef} = 200.00 \text{ kPa}$

Saturated unit weight : $\gamma_{sat} = 21.00 \text{ kN/m}^3$

Material de relleno importado

Unit weight : $\gamma = 18.60 \text{ kN/m}^3$

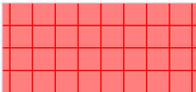
Stress-state : effective

Angle of internal friction : $\varphi_{ef} = 35.00^\circ$

Cohesion of soil : $c_{ef} = 8.00 \text{ kPa}$

Saturated unit weight : $\gamma_{sat} = 19.00 \text{ kN/m}^3$

Rigid Bodies

No.	Name	Sample	γ [kN/m ³]
1	Material of structure		23.00

Assigning and surfaces



No.	Surface position	Coordinates of surface points [m]				Assigned soil
		x	z	x	z	
1		-0.40	11.82	-0.40	9.15	Material of structure
		-1.40	9.15	-1.40	6.65	
		-0.05	6.65	0.00	8.15	
		0.00	9.15	0.00	11.82	
2		32.46	3.32	32.46	11.82	Suelo residual arcillosa de consistencia firme
		13.92	11.82	5.42	3.32	
3		-0.05	2.70	4.80	2.70	Material de relleno importado
		5.42	3.32	13.92	11.82	
		0.00	11.82	0.00	9.15	
		0.00	8.15	-0.05	6.65	
4		-1.40	2.70	-4.20	2.70	Material of structure
		-4.20	1.00	4.80	1.00	
		4.80	2.70	-0.05	2.70	
		-0.05	6.65	-1.40	6.65	
		-1.40	3.50			
5		-4.20	1.00	-4.20	2.70	Suelo residual arcillosa de consistencia firme
		-1.40	2.70	-1.40	3.50	
		-27.05	3.50	-27.05	1.00	



No.	Surface position	Coordinates of surface points [m]				Assigned soil
		x	z	x	z	
6		5.42	3.32	4.80	2.70	Roca sedimentaria meteorizada
		4.80	1.00	-4.20	1.00	
		-27.05	1.00	-27.05	-4.00	
		32.46	-4.00	32.46	3.32	

Surcharge

No.	Type	Type of action	Location z [m]	Origin x [m]	Length l [m]	Width b [m]	Slope α [°]	Magnitude		
								q, q ₁ , f, F, x	q ₂ , z	unit
1	line	permanent	z = 9.15	x = -0.90			-2.30	300.02		kN/m

Surcharges

No.	Name
1	Bridge

Water

Water type : GWT

No.	GWT location	Coordinates of GWT points [m]					
		x	z	x	z	x	z
1		-27.05	3.82	-0.05	3.82	32.46	3.82

Tensile crack

Tensile crack not input.

Earthquake

Earthquake not included.

Settings of the stage of construction



Design situation : Service I

Results (Stage of construction 1)

Analysis 1 (stage 1)

Circular slip surface

Slip surface parameters					
Center :	x =	-3.63 [m]	Angles :	$\alpha_1 =$	-52.20 [°]
	z =	11.97 [m]		$\alpha_2 =$	89.38 [°]
Radius :	R =	13.82 [m]			
The slip surface after optimization.					

Slope stability verification (Morgenstern-Price)

Utilization : 19.7 %

CDR CDR: 5.072

Slope stability ACCEPTABLE

Optimization of circular slip surface (Morgenstern-Price)

No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
1	-5.71	67.67	67.59	12.2 %	ACCEPTABLE
2	-5.71	67.67	67.59	12.2 %	ACCEPTABLE
3	3.77	35.01	36.74	13.9 %	ACCEPTABLE
4	12.06	17.99	21.12	1.7 %	ACCEPTABLE
5	1.35	17.32	31.40	13.9 %	ACCEPTABLE
6	5.05	27.95	31.63	13.8 %	ACCEPTABLE
7	1.72	14.64	30.67	13.2 %	ACCEPTABLE
8	1.86	13.64	30.45	12.8 %	ACCEPTABLE
9	-0.07	19.49	21.90	16.5 %	ACCEPTABLE
10	11.75	19.48	21.90	1.6 %	ACCEPTABLE
11	1.35	17.31	31.40	13.9 %	ACCEPTABLE
12	-61.63	465.11	462.91	2.4 %	ACCEPTABLE
13	-0.07	19.49	21.90	16.5 %	ACCEPTABLE
14	0.79	12.18	11.77	2.5 %	ACCEPTABLE
15	-24.31	174.05	170.56	3.2 %	ACCEPTABLE
16	-8.52	89.14	85.65	4.1 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
17	-2.14	37.48	39.83	15.1 %	ACCEPTABLE
18	-1.03	30.65	34.87	15.6 %	ACCEPTABLE
19	7.81	19.49	21.90	7.9 %	ACCEPTABLE
20	1.07	17.72	27.89	14.8 %	ACCEPTABLE
21	-13.25	42.09	39.78	2.8 %	ACCEPTABLE
22	-8.88	35.10	31.64	2.5 %	ACCEPTABLE
23	-7.95	19.49	21.90	7.7 %	ACCEPTABLE
24	-6.89	14.98	19.71	17.0 %	ACCEPTABLE
25	-15.10	75.31	72.77	2.6 %	ACCEPTABLE
26	-5.55	42.88	40.50	1.6 %	ACCEPTABLE
27	-5.93	23.15	28.70	16.4 %	ACCEPTABLE
28	0.99	14.98	19.71	15.5 %	ACCEPTABLE
29	-15.73	25.29	24.46	2.0 %	ACCEPTABLE
30	-9.69	18.35	15.78	2.1 %	ACCEPTABLE
31	-12.32	12.34	17.01	4.1 %	ACCEPTABLE
32	1.38	13.31	19.12	14.8 %	ACCEPTABLE
33	-6.89	14.98	19.71	17.0 %	ACCEPTABLE
34	-6.98	13.09	14.35	3.7 %	ACCEPTABLE
35	-4.60	27.64	27.44	2.3 %	ACCEPTABLE
36	-1.64	14.98	19.71	16.6 %	ACCEPTABLE
37	-5.62	13.59	23.51	15.0 %	ACCEPTABLE
38	-13.31	22.21	23.09	2.1 %	ACCEPTABLE
39	-8.08	16.39	16.06	1.6 %	ACCEPTABLE
40	-11.34	14.12	18.79	4.7 %	ACCEPTABLE
41	-11.00	12.73	18.34	5.3 %	ACCEPTABLE
42	-7.30	22.59	27.33	16.4 %	ACCEPTABLE
43	-1.53	14.55	19.55	16.5 %	ACCEPTABLE
44	-6.89	14.98	19.71	17.0 %	ACCEPTABLE
45	-3.11	13.81	19.28	16.5 %	ACCEPTABLE
46	-7.10	14.27	16.35	4.6 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
47	-9.52	29.84	31.29	4.6 %	ACCEPTABLE
48	-5.05	22.09	23.49	17.5 %	ACCEPTABLE
49	-1.52	21.97	23.41	17.1 %	ACCEPTABLE
50	-9.78	49.12	47.47	2.1 %	ACCEPTABLE
51	-6.23	30.95	32.13	16.2 %	ACCEPTABLE
52	0.12	14.97	19.71	16.1 %	ACCEPTABLE
53	-5.57	27.59	29.68	16.6 %	ACCEPTABLE
54	-1.55	22.09	23.49	17.1 %	ACCEPTABLE
55	-4.19	20.53	25.31	16.9 %	ACCEPTABLE
56	-4.11	16.01	17.20	11.9 %	ACCEPTABLE
57	-10.74	31.43	30.47	2.0 %	ACCEPTABLE
58	-8.55	22.09	23.49	3.1 %	ACCEPTABLE
59	-4.62	12.29	17.20	16.8 %	ACCEPTABLE
60	-7.47	17.48	20.83	17.5 %	ACCEPTABLE
61	-3.75	16.57	20.39	17.3 %	ACCEPTABLE
62	-7.83	16.79	17.62	3.0 %	ACCEPTABLE
63	-6.08	26.48	26.56	2.3 %	ACCEPTABLE
64	-8.41	24.24	27.46	16.4 %	ACCEPTABLE
65	-2.64	11.82	18.72	15.5 %	ACCEPTABLE
66	-8.03	22.27	26.28	16.5 %	ACCEPTABLE
67	-3.97	17.48	20.83	17.4 %	ACCEPTABLE
68	-6.95	16.76	23.55	16.2 %	ACCEPTABLE
69	-6.49	12.19	15.57	9.7 %	ACCEPTABLE
70	-12.46	23.84	24.67	1.8 %	ACCEPTABLE
71	-8.45	18.88	18.89	1.6 %	ACCEPTABLE
72	-10.97	17.48	20.83	4.6 %	ACCEPTABLE
73	-10.21	14.23	19.44	7.2 %	ACCEPTABLE
74	-10.69	16.27	20.26	4.9 %	ACCEPTABLE
75	-6.53	12.33	15.61	9.1 %	ACCEPTABLE
76	-8.32	23.76	27.16	16.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
77	-4.01	17.67	20.93	17.5 %	ACCEPTABLE
78	-0.30	16.78	20.50	16.6 %	ACCEPTABLE
79	-4.39	16.98	17.74	6.1 %	ACCEPTABLE
80	-7.25	36.20	36.26	2.3 %	ACCEPTABLE
81	-2.65	26.83	26.83	12.2 %	ACCEPTABLE
82	-4.96	24.50	27.63	16.9 %	ACCEPTABLE
83	0.83	11.96	18.76	14.6 %	ACCEPTABLE
84	-4.57	22.49	26.41	17.0 %	ACCEPTABLE
85	-0.51	17.67	20.93	16.8 %	ACCEPTABLE
86	-3.48	16.92	23.62	16.4 %	ACCEPTABLE
87	-3.03	12.35	15.63	17.4 %	ACCEPTABLE
88	-9.03	24.13	24.87	2.4 %	ACCEPTABLE
89	-5.01	19.14	19.06	1.8 %	ACCEPTABLE
90	-7.51	17.67	20.93	17.5 %	ACCEPTABLE
91	-3.80	16.78	20.50	17.4 %	ACCEPTABLE
92	-7.89	16.98	17.74	3.0 %	ACCEPTABLE
93	-6.15	26.83	26.83	2.2 %	ACCEPTABLE
94	-8.46	24.50	27.63	16.4 %	ACCEPTABLE
95	-2.67	11.96	18.76	15.6 %	ACCEPTABLE
96	-8.07	22.49	26.41	16.5 %	ACCEPTABLE
97	-4.01	17.67	20.93	17.5 %	ACCEPTABLE
98	-6.98	16.92	23.62	16.3 %	ACCEPTABLE
99	-6.53	12.35	15.63	8.7 %	ACCEPTABLE
100	-12.53	24.13	24.87	2.5 %	ACCEPTABLE
101	-11.01	17.67	20.93	4.6 %	ACCEPTABLE
102	-10.24	14.37	19.49	7.2 %	ACCEPTABLE
103	-10.72	16.43	20.34	4.9 %	ACCEPTABLE
104	-6.57	12.48	15.67	8.7 %	ACCEPTABLE
105	-8.36	24.00	27.32	16.4 %	ACCEPTABLE
106	-4.06	17.88	21.04	17.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
107	-361.96	1372.05	1409.92	1.9 %	ACCEPTABLE
108	-7.51	17.67	20.93	17.5 %	ACCEPTABLE
109	-5.18	17.68	20.93	17.5 %	ACCEPTABLE
110	-7.81	17.46	18.92	3.7 %	ACCEPTABLE
111	-9.44	28.32	29.42	2.8 %	ACCEPTABLE
112	-6.45	23.09	24.16	6.4 %	ACCEPTABLE
113	-8.17	22.16	25.30	16.6 %	ACCEPTABLE
114	-4.27	13.81	19.29	16.6 %	ACCEPTABLE
115	-7.91	20.92	24.58	16.6 %	ACCEPTABLE
116	-5.17	17.67	20.93	17.5 %	ACCEPTABLE
117	-7.12	17.13	22.68	16.5 %	ACCEPTABLE
118	-6.93	14.21	17.35	9.6 %	ACCEPTABLE
119	-10.83	21.85	23.34	2.8 %	ACCEPTABLE
120	-8.09	18.51	19.53	3.0 %	ACCEPTABLE
121	-9.85	17.67	20.93	4.8 %	ACCEPTABLE
122	-7.44	12.08	17.69	16.5 %	ACCEPTABLE
123	-9.41	15.83	20.07	9.0 %	ACCEPTABLE
124	-6.74	13.49	17.07	18.0 %	ACCEPTABLE
125	-4.31	13.13	16.94	17.6 %	ACCEPTABLE
126	-6.91	13.14	14.88	4.3 %	ACCEPTABLE
127	-8.54	22.06	23.48	3.0 %	ACCEPTABLE
128	-5.53	17.68	19.04	7.5 %	ACCEPTABLE
129	-7.40	17.18	20.69	17.4 %	ACCEPTABLE
130	-7.19	16.29	20.27	17.3 %	ACCEPTABLE
131	-4.40	13.49	17.07	17.7 %	ACCEPTABLE
132	-6.47	13.22	19.10	16.4 %	ACCEPTABLE
133	-9.95	16.72	18.52	3.7 %	ACCEPTABLE
134	-7.15	13.91	15.21	3.7 %	ACCEPTABLE
135	-9.08	13.49	17.07	5.1 %	ACCEPTABLE
136	-8.68	12.02	16.59	6.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
137	-8.93	12.95	16.88	5.3 %	ACCEPTABLE
138	-7.35	16.96	20.58	17.4 %	ACCEPTABLE
139	-4.43	13.58	17.10	17.8 %	ACCEPTABLE
140	-6.74	13.49	17.07	18.0 %	ACCEPTABLE
141	-5.18	13.49	17.07	17.8 %	ACCEPTABLE
142	-6.87	13.34	15.64	4.9 %	ACCEPTABLE
143	-7.88	18.74	20.87	5.4 %	ACCEPTABLE
144	-5.89	16.12	18.21	10.1 %	ACCEPTABLE
145	-7.19	15.92	19.43	17.7 %	ACCEPTABLE
146	-7.06	15.38	19.19	17.6 %	ACCEPTABLE
147	-5.18	13.49	17.07	17.8 %	ACCEPTABLE
148	-6.55	13.30	18.41	16.8 %	ACCEPTABLE
149	-8.88	15.64	17.98	4.4 %	ACCEPTABLE
150	-6.99	13.75	15.80	4.6 %	ACCEPTABLE
151	-8.30	13.49	17.07	5.3 %	ACCEPTABLE
152	-8.08	12.68	16.79	7.0 %	ACCEPTABLE
153	-8.21	13.17	16.96	5.6 %	ACCEPTABLE
154	-7.15	15.75	19.36	17.7 %	ACCEPTABLE
155	-5.21	13.61	17.11	17.8 %	ACCEPTABLE
156	-6.74	13.49	17.07	18.0 %	ACCEPTABLE
157	-5.73	13.59	17.11	18.3 %	ACCEPTABLE
158	-4.72	13.70	17.15	17.9 %	ACCEPTABLE
159	-5.83	13.53	16.17	11.6 %	ACCEPTABLE
160	-6.47	16.94	19.48	17.9 %	ACCEPTABLE
161	-5.15	15.29	17.82	18.5 %	ACCEPTABLE
162	-4.17	15.51	17.92	17.9 %	ACCEPTABLE
163	-5.28	15.24	16.92	7.9 %	ACCEPTABLE
164	-5.98	19.10	20.67	9.0 %	ACCEPTABLE
165	-4.64	17.26	18.82	18.2 %	ACCEPTABLE
166	-5.48	17.13	19.58	17.9 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
167	-3.68	13.69	17.15	17.2 %	ACCEPTABLE
168	-5.36	16.65	19.34	17.9 %	ACCEPTABLE
169	-4.11	15.29	17.82	17.9 %	ACCEPTABLE
170	-4.97	15.08	18.62	17.6 %	ACCEPTABLE
171	-4.89	13.89	16.31	18.8 %	ACCEPTABLE
172	-3.90	14.06	16.38	18.4 %	ACCEPTABLE
173	-5.01	13.82	15.39	6.3 %	ACCEPTABLE
174	-5.73	17.44	18.91	7.1 %	ACCEPTABLE
175	-4.38	15.71	17.15	11.8 %	ACCEPTABLE
176	-5.23	15.61	17.96	18.5 %	ACCEPTABLE
177	-3.42	12.39	15.76	17.4 %	ACCEPTABLE
178	-5.12	15.17	17.76	18.4 %	ACCEPTABLE
179	-3.85	13.89	16.31	18.3 %	ACCEPTABLE
180	-4.72	13.72	17.15	17.9 %	ACCEPTABLE
181	-4.61	12.55	14.88	19.1 %	ACCEPTABLE
182	-3.61	12.66	14.92	18.6 %	ACCEPTABLE
183	-4.71	12.47	13.94	5.1 %	ACCEPTABLE
184	-5.45	15.84	17.22	5.8 %	ACCEPTABLE
185	-4.09	14.22	15.57	9.7 %	ACCEPTABLE
186	-4.96	14.14	16.42	19.0 %	ACCEPTABLE
187	-4.85	13.76	16.26	18.7 %	ACCEPTABLE
188	-3.57	12.55	14.88	18.4 %	ACCEPTABLE
189	-4.46	12.41	15.76	18.0 %	ACCEPTABLE
190	-6.08	13.93	15.44	4.0 %	ACCEPTABLE
191	-4.80	12.72	14.04	4.3 %	ACCEPTABLE
192	-5.65	12.55	14.88	7.0 %	ACCEPTABLE
193	-5.49	12.05	14.71	9.1 %	ACCEPTABLE
194	-5.58	12.34	14.81	7.5 %	ACCEPTABLE
195	-4.92	14.00	16.36	18.8 %	ACCEPTABLE
196	-3.61	12.66	14.92	18.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
197	-4.61	12.55	14.88	19.1 %	ACCEPTABLE
198	-3.96	12.67	14.92	19.2 %	ACCEPTABLE
199	-3.31	12.80	14.97	18.6 %	ACCEPTABLE
200	-4.03	12.63	14.30	10.3 %	ACCEPTABLE
201	-4.52	14.80	16.42	11.2 %	ACCEPTABLE
202	-3.61	13.77	15.36	19.2 %	ACCEPTABLE
203	-2.98	13.96	15.45	19.1 %	ACCEPTABLE
204	-3.70	13.73	14.76	7.1 %	ACCEPTABLE
205	-4.21	16.11	17.08	7.7 %	ACCEPTABLE
206	-3.30	14.99	15.94	10.9 %	ACCEPTABLE
207	-3.86	14.94	16.48	18.9 %	ACCEPTABLE
208	-2.60	12.76	14.95	18.3 %	ACCEPTABLE
209	-3.77	14.62	16.33	18.8 %	ACCEPTABLE
210	-2.92	13.77	15.36	18.9 %	ACCEPTABLE
211	-3.48	13.64	15.90	18.5 %	ACCEPTABLE
212	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
213	-2.78	13.06	14.47	19.2 %	ACCEPTABLE
214	-3.51	12.85	13.79	6.5 %	ACCEPTABLE
215	-4.03	15.12	16.00	6.3 %	ACCEPTABLE
216	-3.11	14.04	14.91	9.1 %	ACCEPTABLE
217	-3.68	14.01	15.47	16.2 %	ACCEPTABLE
218	-2.41	11.93	14.04	18.5 %	ACCEPTABLE
219	-3.59	13.71	15.34	19.2 %	ACCEPTABLE
220	-2.73	12.89	14.40	19.2 %	ACCEPTABLE
221	-3.29	12.77	14.96	18.7 %	ACCEPTABLE
222	-3.22	12.04	13.47	14.0 %	ACCEPTABLE
223	-4.43	13.85	14.81	4.7 %	ACCEPTABLE
224	-3.57	13.03	13.87	5.5 %	ACCEPTABLE
225	-4.11	12.89	14.40	8.9 %	ACCEPTABLE
226	-4.00	12.54	14.26	10.9 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
227	-4.06	12.74	14.34	9.8 %	ACCEPTABLE
228	-3.19	11.95	13.44	14.3 %	ACCEPTABLE
229	-3.64	13.88	15.41	19.2 %	ACCEPTABLE
230	-2.76	13.00	14.44	19.2 %	ACCEPTABLE
231	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
232	-3.00	13.02	14.45	19.4 %	ACCEPTABLE
233	-3.48	12.87	14.00	7.8 %	ACCEPTABLE
234	-3.82	14.33	15.43	8.0 %	ACCEPTABLE
235	-3.21	13.64	14.72	11.1 %	ACCEPTABLE
236	-3.59	13.63	15.10	16.2 %	ACCEPTABLE
237	-2.75	12.25	14.16	18.8 %	ACCEPTABLE
238	-3.53	13.44	15.02	19.2 %	ACCEPTABLE
239	-2.96	12.89	14.40	19.4 %	ACCEPTABLE
240	-3.33	12.81	14.77	19.0 %	ACCEPTABLE
241	-3.29	12.33	13.78	12.7 %	ACCEPTABLE
242	-4.09	13.53	14.67	6.2 %	ACCEPTABLE
243	-3.52	12.98	14.04	7.6 %	ACCEPTABLE
244	-3.88	12.89	14.40	10.7 %	ACCEPTABLE
245	-3.33	11.85	13.81	19.0 %	ACCEPTABLE
246	-3.81	12.68	14.32	12.0 %	ACCEPTABLE
247	-3.24	12.17	13.72	16.4 %	ACCEPTABLE
248	-3.62	12.10	14.10	18.9 %	ACCEPTABLE
249	-3.85	12.79	14.36	10.3 %	ACCEPTABLE
250	-3.27	12.26	13.76	14.2 %	ACCEPTABLE
251	-3.57	13.54	15.07	16.2 %	ACCEPTABLE
252	-2.98	12.97	14.43	19.4 %	ACCEPTABLE
253	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
254	-3.14	12.99	14.44	19.4 %	ACCEPTABLE
255	-3.46	12.88	14.13	9.1 %	ACCEPTABLE
256	-3.68	13.84	15.07	10.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
257	-3.28	13.39	14.61	12.9 %	ACCEPTABLE
258	-3.54	13.38	14.87	16.3 %	ACCEPTABLE
259	-2.97	12.46	14.23	19.1 %	ACCEPTABLE
260	-3.50	13.26	14.81	19.4 %	ACCEPTABLE
261	-3.11	12.89	14.40	19.4 %	ACCEPTABLE
262	-3.36	12.84	14.64	19.1 %	ACCEPTABLE
263	-3.34	12.52	13.99	14.2 %	ACCEPTABLE
264	-3.87	13.32	14.58	8.3 %	ACCEPTABLE
265	-3.48	12.95	14.16	8.9 %	ACCEPTABLE
266	-3.73	12.89	14.40	12.1 %	ACCEPTABLE
267	-3.36	12.18	14.00	19.1 %	ACCEPTABLE
268	-3.16	12.01	13.80	19.0 %	ACCEPTABLE
269	-3.68	12.76	14.35	14.2 %	ACCEPTABLE
270	-3.30	12.41	13.95	16.1 %	ACCEPTABLE
271	-3.55	12.36	14.20	19.1 %	ACCEPTABLE
272	-3.71	12.83	14.37	12.0 %	ACCEPTABLE
273	-3.32	12.47	13.97	13.9 %	ACCEPTABLE
274	-3.52	13.32	14.84	19.4 %	ACCEPTABLE
275	-3.13	12.94	14.42	19.3 %	ACCEPTABLE
276	-3.42	12.89	14.40	19.4 %	ACCEPTABLE
277	-3.24	12.96	14.43	19.5 %	ACCEPTABLE
278	-3.06	13.03	14.46	19.4 %	ACCEPTABLE
279	-3.27	12.96	14.25	12.5 %	ACCEPTABLE
280	-3.42	13.59	14.87	12.8 %	ACCEPTABLE
281	-3.14	13.29	14.57	16.6 %	ACCEPTABLE
282	-3.32	13.29	14.74	19.4 %	ACCEPTABLE
283	-2.94	12.67	14.32	19.2 %	ACCEPTABLE
284	-3.29	13.21	14.71	19.3 %	ACCEPTABLE
285	-3.03	12.96	14.43	19.4 %	ACCEPTABLE
286	-3.20	12.92	14.59	19.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
287	-3.19	12.71	14.15	16.2 %	ACCEPTABLE
288	-3.54	13.25	14.55	11.3 %	ACCEPTABLE
289	-3.28	13.00	14.27	11.1 %	ACCEPTABLE
290	-3.45	12.96	14.43	14.2 %	ACCEPTABLE
291	-3.20	12.48	14.15	19.3 %	ACCEPTABLE
292	-3.07	12.36	14.02	19.2 %	ACCEPTABLE
293	-3.42	12.87	14.39	16.2 %	ACCEPTABLE
294	-3.16	12.64	14.12	19.5 %	ACCEPTABLE
295	-2.98	12.71	14.15	19.4 %	ACCEPTABLE
296	-3.19	12.64	13.94	12.6 %	ACCEPTABLE
297	-3.34	13.25	14.55	12.8 %	ACCEPTABLE
298	-3.06	12.96	14.25	16.5 %	ACCEPTABLE
299	-3.24	12.96	14.43	19.5 %	ACCEPTABLE
300	-2.86	12.36	14.01	19.2 %	ACCEPTABLE
301	-3.21	12.88	14.39	19.5 %	ACCEPTABLE
302	-2.95	12.64	14.12	19.3 %	ACCEPTABLE
303	-3.12	12.60	14.28	19.1 %	ACCEPTABLE
304	-3.10	12.39	13.85	16.5 %	ACCEPTABLE
305	-3.46	12.92	14.23	11.2 %	ACCEPTABLE
306	-3.20	12.68	13.96	11.4 %	ACCEPTABLE
307	-3.37	12.64	14.12	14.2 %	ACCEPTABLE
308	-3.12	12.17	13.85	19.1 %	ACCEPTABLE
309	-2.99	12.05	13.72	19.3 %	ACCEPTABLE
310	-3.34	12.56	14.09	16.4 %	ACCEPTABLE
311	-3.08	12.32	13.82	19.5 %	ACCEPTABLE
312	-3.25	12.29	13.99	19.3 %	ACCEPTABLE
313	-3.35	12.60	14.10	14.2 %	ACCEPTABLE
314	-3.09	12.36	13.83	16.2 %	ACCEPTABLE
315	-3.23	12.92	14.41	19.4 %	ACCEPTABLE
316	-2.97	12.68	14.13	19.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
317	-3.16	12.64	14.12	19.5 %	ACCEPTABLE
318	-3.04	12.69	14.14	19.5 %	ACCEPTABLE
319	-2.92	12.74	14.16	19.4 %	ACCEPTABLE
320	-3.06	12.69	14.02	16.5 %	ACCEPTABLE
321	-3.16	13.10	14.42	16.5 %	ACCEPTABLE
322	-2.98	12.91	14.23	19.5 %	ACCEPTABLE
323	-3.09	12.90	14.34	19.3 %	ACCEPTABLE
324	-2.84	12.50	14.07	19.2 %	ACCEPTABLE
325	-3.08	12.85	14.32	19.3 %	ACCEPTABLE
326	-2.90	12.69	14.14	19.3 %	ACCEPTABLE
327	-3.01	12.67	14.25	19.3 %	ACCEPTABLE
328	-3.00	12.53	13.96	19.5 %	ACCEPTABLE
329	-3.24	12.88	14.22	12.7 %	ACCEPTABLE
330	-3.07	12.71	14.03	16.5 %	ACCEPTABLE
331	-3.18	12.69	14.14	16.5 %	ACCEPTABLE
332	-3.01	12.37	13.96	19.3 %	ACCEPTABLE
333	-2.92	12.29	13.87	19.3 %	ACCEPTABLE
334	-3.16	12.64	14.12	19.5 %	ACCEPTABLE
335	-2.99	12.48	13.94	19.4 %	ACCEPTABLE
336	-3.10	12.45	14.05	19.3 %	ACCEPTABLE
337	-3.17	12.66	14.13	19.5 %	ACCEPTABLE
338	-3.00	12.50	13.95	19.5 %	ACCEPTABLE
339	-2.88	12.55	13.97	19.3 %	ACCEPTABLE
340	-3.02	12.50	13.83	14.1 %	ACCEPTABLE
341	-3.12	12.90	14.23	14.6 %	ACCEPTABLE
342	-2.94	12.71	14.03	19.6 %	ACCEPTABLE
343	-2.82	12.76	14.05	19.5 %	ACCEPTABLE
344	-2.96	12.71	13.91	12.5 %	ACCEPTABLE
345	-3.06	13.12	14.32	12.5 %	ACCEPTABLE
346	-2.88	12.93	14.12	14.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
347	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
348	-2.87	12.98	14.26	19.5 %	ACCEPTABLE
349	-3.01	12.93	14.12	12.9 %	ACCEPTABLE
350	-3.11	13.35	14.53	14.2 %	ACCEPTABLE
351	-2.93	13.15	14.33	16.4 %	ACCEPTABLE
352	-3.04	13.15	14.45	16.3 %	ACCEPTABLE
353	-2.79	12.74	14.16	19.4 %	ACCEPTABLE
354	-3.03	13.09	14.42	19.5 %	ACCEPTABLE
355	-2.85	12.93	14.24	19.5 %	ACCEPTABLE
356	-2.96	12.90	14.35	19.3 %	ACCEPTABLE
357	-2.95	12.76	14.06	16.5 %	ACCEPTABLE
358	-3.19	13.12	14.32	11.1 %	ACCEPTABLE
359	-3.02	12.96	14.13	12.5 %	ACCEPTABLE
360	-3.13	12.93	14.24	14.6 %	ACCEPTABLE
361	-2.96	12.61	14.05	19.4 %	ACCEPTABLE
362	-2.87	12.53	13.96	19.3 %	ACCEPTABLE
363	-3.11	12.87	14.22	16.7 %	ACCEPTABLE
364	-2.94	12.71	14.03	19.6 %	ACCEPTABLE
365	-3.05	12.69	14.14	19.5 %	ACCEPTABLE
366	-3.12	12.90	14.23	14.6 %	ACCEPTABLE
367	-2.95	12.74	14.05	19.6 %	ACCEPTABLE
368	-3.03	13.12	14.44	19.4 %	ACCEPTABLE
369	-2.86	12.96	14.25	19.5 %	ACCEPTABLE
370	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
371	-2.91	12.96	14.25	19.5 %	ACCEPTABLE
372	-3.00	12.93	14.16	14.2 %	ACCEPTABLE
373	-3.07	13.21	14.43	14.2 %	ACCEPTABLE
374	-2.95	13.08	14.30	16.5 %	ACCEPTABLE
375	-3.03	13.08	14.38	16.7 %	ACCEPTABLE
376	-2.86	12.80	14.19	19.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
377	-3.01	13.04	14.36	19.4 %	ACCEPTABLE
378	-2.90	12.93	14.24	19.5 %	ACCEPTABLE
379	-2.97	12.91	14.31	19.4 %	ACCEPTABLE
380	-2.97	12.82	14.12	16.8 %	ACCEPTABLE
381	-3.12	13.06	14.29	14.2 %	ACCEPTABLE
382	-3.01	12.95	14.17	14.6 %	ACCEPTABLE
383	-3.08	12.93	14.24	16.7 %	ACCEPTABLE
384	-2.97	12.71	14.11	19.6 %	ACCEPTABLE
385	-2.91	12.66	14.05	19.4 %	ACCEPTABLE
386	-3.07	12.89	14.22	16.5 %	ACCEPTABLE
387	-2.95	12.78	14.10	19.6 %	ACCEPTABLE
388	-3.03	12.77	14.17	19.6 %	ACCEPTABLE
389	-3.07	12.91	14.23	16.5 %	ACCEPTABLE
390	-2.96	12.80	14.11	16.5 %	ACCEPTABLE
391	-3.02	13.06	14.37	19.5 %	ACCEPTABLE
392	-2.90	12.95	14.25	19.5 %	ACCEPTABLE
393	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
394	-2.94	12.95	14.25	19.5 %	ACCEPTABLE
395	-3.00	12.93	14.19	16.5 %	ACCEPTABLE
396	-3.04	13.11	14.37	16.7 %	ACCEPTABLE
397	-2.96	13.03	14.28	16.4 %	ACCEPTABLE
398	-3.01	13.03	14.33	19.5 %	ACCEPTABLE
399	-2.90	12.85	14.21	19.5 %	ACCEPTABLE
400	-3.01	13.00	14.32	19.6 %	ACCEPTABLE
401	-2.93	12.93	14.24	19.5 %	ACCEPTABLE
402	-2.98	12.92	14.29	19.4 %	ACCEPTABLE
403	-2.97	12.86	14.16	16.7 %	ACCEPTABLE
404	-3.08	13.01	14.28	14.6 %	ACCEPTABLE
405	-3.00	12.94	14.19	14.2 %	ACCEPTABLE
406	-3.05	12.93	14.24	16.7 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
407	-2.98	12.79	14.16	19.4 %	ACCEPTABLE
408	-2.94	12.75	14.11	19.4 %	ACCEPTABLE
409	-3.04	12.91	14.23	16.5 %	ACCEPTABLE
410	-2.97	12.83	14.15	16.5 %	ACCEPTABLE
411	-3.01	12.82	14.20	19.6 %	ACCEPTABLE
412	-3.05	12.92	14.23	16.7 %	ACCEPTABLE
413	-2.97	12.84	14.15	16.4 %	ACCEPTABLE
414	-3.01	13.02	14.33	19.6 %	ACCEPTABLE
415	-2.93	12.94	14.24	19.5 %	ACCEPTABLE
416	-2.99	12.93	14.24	19.6 %	ACCEPTABLE
417	-2.95	12.95	14.25	19.5 %	ACCEPTABLE
418	-3.00	12.93	14.21	16.5 %	ACCEPTABLE
419	-3.02	13.05	14.33	16.4 %	ACCEPTABLE
420	-2.97	12.99	14.27	16.6 %	ACCEPTABLE
421	-3.01	12.99	14.30	19.5 %	ACCEPTABLE
422	-2.93	12.87	14.22	19.5 %	ACCEPTABLE
423	-3.00	12.98	14.29	19.6 %	ACCEPTABLE
424	-2.95	12.93	14.24	19.5 %	ACCEPTABLE
425	-2.98	12.92	14.27	19.4 %	ACCEPTABLE
426	-2.98	12.88	14.19	16.4 %	ACCEPTABLE
427	-3.05	12.99	14.26	14.6 %	ACCEPTABLE
428	-3.00	12.94	14.21	14.6 %	ACCEPTABLE
429	-3.03	12.93	14.24	16.7 %	ACCEPTABLE
430	-2.98	12.83	14.18	19.5 %	ACCEPTABLE
431	-2.96	12.81	14.16	19.5 %	ACCEPTABLE
432	-3.02	12.91	14.23	16.4 %	ACCEPTABLE
433	-2.97	12.87	14.18	16.5 %	ACCEPTABLE
434	-3.01	12.86	14.21	19.6 %	ACCEPTABLE
435	-3.03	12.92	14.24	16.7 %	ACCEPTABLE
436	-2.98	12.87	14.18	16.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
437	-3.00	12.99	14.30	19.5 %	ACCEPTABLE
438	-2.95	12.94	14.24	19.5 %	ACCEPTABLE
439	-6.09	36.01	37.85	15.6 %	ACCEPTABLE
440	4.90	31.98	33.99	13.4 %	ACCEPTABLE
441	1.21	18.27	31.71	14.1 %	ACCEPTABLE
442	-11.46	24.29	25.87	2.7 %	ACCEPTABLE
443	-10.41	19.48	22.93	5.7 %	ACCEPTABLE
444	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
445	-5.79	34.27	36.53	15.8 %	ACCEPTABLE
446	-4.14	24.65	30.04	16.6 %	ACCEPTABLE
447	-6.09	36.00	37.84	15.6 %	ACCEPTABLE
448	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
449	-15.10	72.65	69.77	2.4 %	ACCEPTABLE
450	-5.06	26.35	28.17	16.9 %	ACCEPTABLE
451	-3.91	20.77	24.67	17.2 %	ACCEPTABLE
452	5.06	12.41	14.03	3.7 %	ACCEPTABLE
453	-13.69	21.33	19.48	1.6 %	ACCEPTABLE
454	-13.91	21.52	19.77	1.6 %	ACCEPTABLE
455	-10.70	12.41	14.03	1.8 %	ACCEPTABLE
456	-5.08	26.45	28.24	16.9 %	ACCEPTABLE
457	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
458	-10.63	47.61	44.88	2.7 %	ACCEPTABLE
459	-2.62	27.51	24.70	5.2 %	ACCEPTABLE
460	-4.45	21.36	22.98	17.7 %	ACCEPTABLE
461	-3.69	18.11	21.10	17.6 %	ACCEPTABLE
462	2.43	12.41	14.03	14.0 %	ACCEPTABLE
463	-2.22	11.86	18.67	15.6 %	ACCEPTABLE
464	-10.27	18.96	17.71	2.8 %	ACCEPTABLE
465	-5.16	14.43	11.40	2.3 %	ACCEPTABLE
466	-8.07	12.41	14.03	3.9 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
467	-4.37	21.02	22.77	17.7 %	ACCEPTABLE
468	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
469	-3.98	18.20	19.74	18.0 %	ACCEPTABLE
470	-3.48	16.29	18.72	17.8 %	ACCEPTABLE
471	0.68	12.41	14.03	15.7 %	ACCEPTABLE
472	-2.36	11.99	17.06	16.2 %	ACCEPTABLE
473	-6.32	12.41	14.03	4.3 %	ACCEPTABLE
474	-3.88	17.81	19.53	18.0 %	ACCEPTABLE
475	0.71	12.34	14.00	15.6 %	ACCEPTABLE
476	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
477	-0.33	11.95	13.87	16.5 %	ACCEPTABLE
478	-2.99	11.93	11.85	2.2 %	ACCEPTABLE
479	-5.10	21.39	20.95	1.6 %	ACCEPTABLE
480	-1.94	16.76	16.24	1.8 %	ACCEPTABLE
481	-3.63	16.18	17.71	18.4 %	ACCEPTABLE
482	-3.31	15.04	17.15	18.0 %	ACCEPTABLE
483	-0.48	12.41	14.03	16.8 %	ACCEPTABLE
484	-2.48	12.10	16.02	16.8 %	ACCEPTABLE
485	-6.18	15.47	15.48	2.4 %	ACCEPTABLE
486	-5.16	12.41	14.03	4.9 %	ACCEPTABLE
487	-3.54	15.86	17.55	18.2 %	ACCEPTABLE
488	-0.52	12.53	14.07	16.9 %	ACCEPTABLE
489	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
490	-1.27	12.42	14.03	17.9 %	ACCEPTABLE
491	-2.97	12.20	12.62	3.4 %	ACCEPTABLE
492	-4.24	17.79	18.01	3.0 %	ACCEPTABLE
493	-2.16	15.09	15.27	6.9 %	ACCEPTABLE
494	-3.38	14.88	16.42	18.9 %	ACCEPTABLE
495	-3.17	14.19	16.10	18.6 %	ACCEPTABLE
496	-1.26	12.41	14.03	17.8 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
497	-2.58	12.19	15.34	17.5 %	ACCEPTABLE
498	-5.07	14.47	14.94	3.0 %	ACCEPTABLE
499	-3.17	12.72	12.84	2.2 %	ACCEPTABLE
500	-4.38	12.41	14.03	7.4 %	ACCEPTABLE
501	-4.25	12.03	13.89	9.7 %	ACCEPTABLE
502	-3.31	14.65	16.31	18.7 %	ACCEPTABLE
503	-1.31	12.56	14.09	17.9 %	ACCEPTABLE
504	-2.82	12.41	14.03	19.3 %	ACCEPTABLE
505	-1.83	12.54	14.08	18.3 %	ACCEPTABLE
506	-2.93	12.32	13.10	6.5 %	ACCEPTABLE
507	-3.73	15.77	16.45	6.7 %	ACCEPTABLE
508	-2.35	14.12	14.77	12.4 %	ACCEPTABLE
509	-3.20	14.04	15.59	19.0 %	ACCEPTABLE
510	-3.07	13.61	15.41	18.8 %	ACCEPTABLE
511	-1.78	12.41	14.03	18.3 %	ACCEPTABLE
512	-2.65	12.26	14.89	18.0 %	ACCEPTABLE
513	-4.32	13.79	14.61	3.6 %	ACCEPTABLE
514	-3.04	12.60	13.22	4.5 %	ACCEPTABLE
515	-3.86	12.41	14.03	11.0 %	ACCEPTABLE
516	-3.67	11.86	13.83	19.4 %	ACCEPTABLE
517	-2.66	11.95	13.86	18.8 %	ACCEPTABLE
518	-4.55	15.05	16.07	5.7 %	ACCEPTABLE
519	-3.17	13.47	14.46	9.1 %	ACCEPTABLE
520	-4.04	13.40	15.32	19.5 %	ACCEPTABLE
521	-3.06	13.57	15.39	18.8 %	ACCEPTABLE
522	-4.16	13.32	14.40	5.4 %	ACCEPTABLE
523	-4.92	16.93	17.90	5.7 %	ACCEPTABLE
524	-3.56	15.21	16.16	9.7 %	ACCEPTABLE
525	-4.40	15.11	16.96	18.7 %	ACCEPTABLE
526	-2.55	11.93	14.78	17.7 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
527	-4.27	14.65	16.75	18.4 %	ACCEPTABLE
528	-3.00	13.40	15.32	18.7 %	ACCEPTABLE
529	-3.86	13.23	16.16	17.9 %	ACCEPTABLE
530	-3.75	12.09	13.91	14.1 %	ACCEPTABLE
531	-5.53	14.87	15.99	3.6 %	ACCEPTABLE
532	-4.26	13.62	14.53	4.8 %	ACCEPTABLE
533	-5.08	13.40	15.32	8.3 %	ACCEPTABLE
534	-4.90	12.82	15.09	13.6 %	ACCEPTABLE
535	-5.00	13.16	15.22	9.5 %	ACCEPTABLE
536	-3.71	11.98	13.87	16.4 %	ACCEPTABLE
537	-4.35	14.93	16.88	18.6 %	ACCEPTABLE
538	-3.05	13.54	15.38	18.7 %	ACCEPTABLE
539	-4.04	13.40	15.32	19.5 %	ACCEPTABLE
540	-3.40	13.57	15.39	19.0 %	ACCEPTABLE
541	-4.12	13.36	14.71	7.7 %	ACCEPTABLE
542	-4.62	15.66	16.95	7.9 %	ACCEPTABLE
543	-3.71	14.57	15.84	12.2 %	ACCEPTABLE
544	-4.29	14.53	16.40	18.8 %	ACCEPTABLE
545	-3.04	12.42	14.95	18.2 %	ACCEPTABLE
546	-4.20	14.24	16.27	18.6 %	ACCEPTABLE
547	-3.35	13.40	15.32	18.8 %	ACCEPTABLE
548	-3.92	13.28	15.88	18.2 %	ACCEPTABLE
549	-3.85	12.53	14.38	16.5 %	ACCEPTABLE
550	-5.03	14.38	15.75	5.6 %	ACCEPTABLE
551	-4.18	13.54	14.79	7.2 %	ACCEPTABLE
552	-4.73	13.40	15.32	11.2 %	ACCEPTABLE
553	-3.94	11.84	14.44	18.7 %	ACCEPTABLE
554	-4.63	13.06	15.18	13.7 %	ACCEPTABLE
555	-3.78	12.31	14.29	19.4 %	ACCEPTABLE
556	-4.37	12.22	14.88	18.7 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
557	-4.69	13.25	15.26	10.7 %	ACCEPTABLE
558	-3.82	12.44	14.34	19.5 %	ACCEPTABLE
559	-4.25	14.41	16.35	18.8 %	ACCEPTABLE
560	-3.38	13.51	15.36	18.9 %	ACCEPTABLE
561	-4.04	13.40	15.32	19.5 %	ACCEPTABLE
562	-3.62	13.53	15.37	18.9 %	ACCEPTABLE
563	-4.10	13.38	14.92	10.2 %	ACCEPTABLE
564	-4.42	14.87	16.37	10.7 %	ACCEPTABLE
565	-3.82	14.17	15.65	16.1 %	ACCEPTABLE
566	-4.21	14.15	16.03	18.8 %	ACCEPTABLE
567	-3.38	12.75	15.06	18.6 %	ACCEPTABLE
568	-4.15	13.96	15.95	18.8 %	ACCEPTABLE
569	-3.58	13.40	15.32	18.9 %	ACCEPTABLE
570	-3.96	13.32	15.69	18.5 %	ACCEPTABLE
571	-3.92	12.83	14.69	19.5 %	ACCEPTABLE
572	-3.50	12.95	14.74	19.1 %	ACCEPTABLE
573	-3.97	12.81	14.28	8.9 %	ACCEPTABLE
574	-4.30	14.25	15.69	8.9 %	ACCEPTABLE
575	-3.70	13.57	14.99	12.2 %	ACCEPTABLE
576	-4.09	13.56	15.38	16.3 %	ACCEPTABLE
577	-3.26	12.20	14.46	18.5 %	ACCEPTABLE
578	-4.03	13.38	15.31	19.4 %	ACCEPTABLE
579	-3.46	12.83	14.69	19.0 %	ACCEPTABLE
580	-3.84	12.76	15.07	19.1 %	ACCEPTABLE
581	-3.79	12.27	14.08	14.5 %	ACCEPTABLE
582	-4.58	13.46	14.95	6.8 %	ACCEPTABLE
583	-4.01	12.91	14.32	8.2 %	ACCEPTABLE
584	-4.38	12.83	14.69	10.9 %	ACCEPTABLE
585	-4.32	12.63	14.61	12.6 %	ACCEPTABLE
586	-3.75	12.12	14.02	19.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
587	-3.32	12.22	14.06	19.2 %	ACCEPTABLE
588	-3.80	12.10	13.61	8.2 %	ACCEPTABLE
589	-4.13	13.47	14.95	9.3 %	ACCEPTABLE
590	-3.52	12.82	14.28	12.1 %	ACCEPTABLE
591	-3.92	12.81	14.68	19.5 %	ACCEPTABLE
592	-3.87	12.65	14.62	19.5 %	ACCEPTABLE
593	-3.29	12.12	14.02	18.9 %	ACCEPTABLE
594	-3.68	12.05	14.41	19.0 %	ACCEPTABLE
595	-4.41	12.72	14.25	6.9 %	ACCEPTABLE
596	-3.83	12.19	13.64	8.7 %	ACCEPTABLE
597	-4.21	12.12	14.02	10.9 %	ACCEPTABLE
598	-4.15	11.94	13.96	12.6 %	ACCEPTABLE
599	-4.18	12.04	13.99	12.2 %	ACCEPTABLE
600	-3.90	12.74	14.65	19.6 %	ACCEPTABLE
601	-3.31	12.18	14.04	19.0 %	ACCEPTABLE
602	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
603	-3.47	12.20	14.05	19.1 %	ACCEPTABLE
604	-3.78	12.11	13.75	10.4 %	ACCEPTABLE
605	-4.00	13.01	14.62	10.9 %	ACCEPTABLE
606	-3.60	12.58	14.19	13.8 %	ACCEPTABLE
607	-3.86	12.58	14.46	16.5 %	ACCEPTABLE
608	-3.83	12.48	14.42	19.5 %	ACCEPTABLE
609	-3.44	12.12	14.02	19.0 %	ACCEPTABLE
610	-3.70	12.08	14.28	19.3 %	ACCEPTABLE
611	-4.19	12.52	14.17	8.9 %	ACCEPTABLE
612	-3.80	12.17	13.77	9.9 %	ACCEPTABLE
613	-4.06	12.12	14.02	12.2 %	ACCEPTABLE
614	-4.02	12.01	13.98	14.0 %	ACCEPTABLE
615	-4.04	12.07	14.00	12.3 %	ACCEPTABLE
616	-3.85	12.53	14.44	19.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
617	-3.46	12.16	14.04	19.1 %	ACCEPTABLE
618	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
619	-3.56	12.18	14.04	19.0 %	ACCEPTABLE
620	-3.77	12.12	13.84	12.8 %	ACCEPTABLE
621	-3.92	12.71	14.42	12.3 %	ACCEPTABLE
622	-3.65	12.43	14.13	13.8 %	ACCEPTABLE
623	-3.83	12.42	14.31	16.3 %	ACCEPTABLE
624	-3.46	11.85	13.93	18.7 %	ACCEPTABLE
625	-3.80	12.36	14.29	19.5 %	ACCEPTABLE
626	-3.54	12.12	14.02	19.0 %	ACCEPTABLE
627	-3.72	12.09	14.19	19.3 %	ACCEPTABLE
628	-3.69	11.88	13.76	16.4 %	ACCEPTABLE
629	-4.04	12.39	14.12	10.9 %	ACCEPTABLE
630	-3.79	12.15	13.85	12.4 %	ACCEPTABLE
631	-3.96	12.12	14.02	14.0 %	ACCEPTABLE
632	-3.93	12.05	13.99	14.3 %	ACCEPTABLE
633	-3.94	12.09	14.01	14.0 %	ACCEPTABLE
634	-3.68	11.85	13.75	19.6 %	ACCEPTABLE
635	-3.82	12.39	14.30	16.3 %	ACCEPTABLE
636	-3.55	12.15	14.03	19.0 %	ACCEPTABLE
637	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
638	-3.63	12.16	14.03	19.0 %	ACCEPTABLE
639	-3.77	12.12	13.90	12.8 %	ACCEPTABLE
640	-3.86	12.51	14.28	14.5 %	ACCEPTABLE
641	-3.68	12.32	14.09	16.3 %	ACCEPTABLE
642	-3.80	12.32	14.21	16.4 %	ACCEPTABLE
643	-3.55	11.94	13.96	18.9 %	ACCEPTABLE
644	-3.79	12.28	14.20	19.5 %	ACCEPTABLE
645	-3.61	12.12	14.02	19.0 %	ACCEPTABLE
646	-3.73	12.10	14.13	19.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
647	-3.71	11.96	13.84	16.4 %	ACCEPTABLE
648	-3.95	12.30	14.08	10.9 %	ACCEPTABLE
649	-3.77	12.14	13.91	14.1 %	ACCEPTABLE
650	-3.89	12.12	14.02	14.0 %	ACCEPTABLE
651	-3.73	11.82	13.86	19.3 %	ACCEPTABLE
652	-3.87	12.07	14.00	14.0 %	ACCEPTABLE
653	-3.70	11.92	13.83	19.5 %	ACCEPTABLE
654	-3.81	11.90	13.94	19.5 %	ACCEPTABLE
655	-3.88	12.10	14.01	14.0 %	ACCEPTABLE
656	-3.71	11.94	13.84	16.4 %	ACCEPTABLE
657	-3.79	12.30	14.21	19.5 %	ACCEPTABLE
658	-3.62	12.14	14.03	19.0 %	ACCEPTABLE
659	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
660	-3.67	12.15	14.03	19.5 %	ACCEPTABLE
661	-3.76	12.12	13.94	14.1 %	ACCEPTABLE
662	-3.82	12.38	14.19	14.1 %	ACCEPTABLE
663	-3.70	12.25	14.07	16.5 %	ACCEPTABLE
664	-3.78	12.26	14.15	19.5 %	ACCEPTABLE
665	-3.62	12.00	13.98	19.4 %	ACCEPTABLE
666	-3.77	12.23	14.14	16.5 %	ACCEPTABLE
667	-3.66	12.12	14.02	19.5 %	ACCEPTABLE
668	-3.73	12.11	14.10	19.4 %	ACCEPTABLE
669	-3.73	12.01	13.90	16.4 %	ACCEPTABLE
670	-3.88	12.24	14.06	14.1 %	ACCEPTABLE
671	-3.77	12.13	13.94	14.1 %	ACCEPTABLE
672	-3.84	12.12	14.02	16.3 %	ACCEPTABLE
673	-3.73	11.92	13.91	19.4 %	ACCEPTABLE
674	-3.68	11.87	13.85	19.4 %	ACCEPTABLE
675	-3.83	12.09	14.01	16.4 %	ACCEPTABLE
676	-3.72	11.99	13.89	16.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
677	-3.79	11.97	13.97	19.6 %	ACCEPTABLE
678	-3.84	12.11	14.01	16.4 %	ACCEPTABLE
679	-3.72	12.00	13.90	16.3 %	ACCEPTABLE
680	-3.78	12.24	14.14	19.5 %	ACCEPTABLE
681	-3.66	12.13	14.02	19.6 %	ACCEPTABLE
682	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
683	-3.70	12.14	14.03	16.6 %	ACCEPTABLE
684	-3.76	12.12	13.97	16.7 %	ACCEPTABLE
685	-3.80	12.29	14.13	16.4 %	ACCEPTABLE
686	-3.72	12.21	14.05	16.4 %	ACCEPTABLE
687	-3.77	12.21	14.11	16.6 %	ACCEPTABLE
688	-3.66	12.04	13.99	19.5 %	ACCEPTABLE
689	-3.77	12.19	14.10	19.6 %	ACCEPTABLE
690	-3.69	12.12	14.02	19.5 %	ACCEPTABLE
691	-3.74	12.11	14.07	19.4 %	ACCEPTABLE
692	-3.73	12.05	13.94	16.3 %	ACCEPTABLE
693	-3.84	12.20	14.05	14.1 %	ACCEPTABLE
694	-3.76	12.13	13.97	14.1 %	ACCEPTABLE
695	-3.81	12.12	14.02	16.4 %	ACCEPTABLE
696	-3.74	11.99	13.95	19.6 %	ACCEPTABLE
697	-3.70	11.95	13.91	19.4 %	ACCEPTABLE
698	-3.80	12.10	14.01	16.4 %	ACCEPTABLE
699	-3.73	12.03	13.93	16.4 %	ACCEPTABLE
700	-3.78	12.02	13.99	19.6 %	ACCEPTABLE
701	-3.81	12.11	14.02	16.4 %	ACCEPTABLE
702	-3.73	12.04	13.94	19.6 %	ACCEPTABLE
703	-3.77	12.20	14.10	19.5 %	ACCEPTABLE
704	-3.69	12.13	14.02	19.6 %	ACCEPTABLE
705	-3.75	12.12	14.02	19.6 %	ACCEPTABLE
706	-3.71	12.13	14.02	19.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
707	-3.75	12.12	13.98	16.7 %	ACCEPTABLE
708	-3.78	12.23	14.10	16.3 %	ACCEPTABLE
709	-3.73	12.18	14.04	16.5 %	ACCEPTABLE
710	-3.77	12.18	14.08	16.6 %	ACCEPTABLE
711	-3.69	12.07	14.00	19.5 %	ACCEPTABLE
712	-3.76	12.17	14.07	19.6 %	ACCEPTABLE
713	-3.71	12.12	14.02	19.5 %	ACCEPTABLE
714	-3.74	12.11	14.05	19.5 %	ACCEPTABLE
715	-3.74	12.07	13.97	19.7 %	ACCEPTABLE
716	-3.70	12.08	13.97	19.7 %	ACCEPTABLE
717	-3.66	12.09	13.97	19.6 %	ACCEPTABLE
718	-3.70	12.08	13.93	19.7 %	ACCEPTABLE
719	-3.66	12.09	13.93	16.6 %	ACCEPTABLE
720	-3.70	12.08	13.89	14.1 %	ACCEPTABLE
721	-3.73	12.19	14.01	16.4 %	ACCEPTABLE
722	-3.68	12.14	13.95	16.5 %	ACCEPTABLE
723	-3.72	12.14	13.99	16.4 %	ACCEPTABLE
724	-3.64	12.03	13.91	19.5 %	ACCEPTABLE
725	-3.71	12.13	13.98	16.7 %	ACCEPTABLE
726	-3.66	12.08	13.93	19.7 %	ACCEPTABLE
727	-3.62	12.09	13.93	19.0 %	ACCEPTABLE
728	-3.66	12.08	13.89	16.5 %	ACCEPTABLE
729	-3.69	12.19	14.01	16.4 %	ACCEPTABLE
730	-3.64	12.14	13.95	16.5 %	ACCEPTABLE
731	-3.68	12.14	13.99	16.5 %	ACCEPTABLE
732	-3.60	12.03	13.91	19.0 %	ACCEPTABLE
733	-3.67	12.13	13.98	16.7 %	ACCEPTABLE
734	-3.62	12.08	13.93	19.6 %	ACCEPTABLE
735	-3.65	12.07	13.96	19.5 %	ACCEPTABLE
736	-3.65	12.03	13.88	16.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
737	-3.72	12.13	13.95	16.7 %	ACCEPTABLE
738	-3.67	12.09	13.90	16.5 %	ACCEPTABLE
739	-3.70	12.08	13.93	19.7 %	ACCEPTABLE
740	-3.65	11.99	13.88	19.5 %	ACCEPTABLE
741	-3.63	11.97	13.85	19.6 %	ACCEPTABLE
742	-3.70	12.07	13.93	16.7 %	ACCEPTABLE
743	-3.64	12.02	13.87	19.7 %	ACCEPTABLE
744	-3.60	12.03	13.87	19.2 %	ACCEPTABLE
745	-3.64	12.02	13.83	16.5 %	ACCEPTABLE
746	-3.67	12.13	13.95	16.6 %	ACCEPTABLE
747	-3.62	12.08	13.89	16.4 %	ACCEPTABLE
748	-3.66	12.08	13.93	19.7 %	ACCEPTABLE
749	-3.58	11.97	13.85	19.0 %	ACCEPTABLE
750	-3.65	12.07	13.92	19.7 %	ACCEPTABLE
751	-3.60	12.02	13.87	19.5 %	ACCEPTABLE
752	-3.63	12.01	13.90	19.5 %	ACCEPTABLE
753	-3.63	11.97	13.82	19.7 %	ACCEPTABLE
754	-3.59	11.98	13.82	16.7 %	ACCEPTABLE
755	-3.63	11.97	13.78	16.5 %	ACCEPTABLE
756	-3.66	12.08	13.90	16.7 %	ACCEPTABLE
757	-3.61	12.03	13.84	16.4 %	ACCEPTABLE
758	-3.65	12.03	13.88	16.6 %	ACCEPTABLE
759	-3.57	11.92	13.80	19.6 %	ACCEPTABLE
760	-3.64	12.02	13.87	19.7 %	ACCEPTABLE
761	-3.59	11.97	13.82	19.6 %	ACCEPTABLE
762	-3.62	11.96	13.85	19.5 %	ACCEPTABLE
763	-3.62	11.92	13.77	16.4 %	ACCEPTABLE
764	-3.69	12.02	13.84	14.1 %	ACCEPTABLE
765	-3.64	11.98	13.79	14.1 %	ACCEPTABLE
766	-3.67	11.97	13.82	16.4 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
767	-3.62	11.88	13.77	19.7 %	ACCEPTABLE
768	-3.60	11.86	13.75	19.7 %	ACCEPTABLE
769	-3.67	11.96	13.82	16.4 %	ACCEPTABLE
770	-3.61	11.91	13.76	16.5 %	ACCEPTABLE
771	-3.65	11.90	13.80	19.7 %	ACCEPTABLE
772	-3.67	11.96	13.82	16.4 %	ACCEPTABLE
773	-3.62	11.92	13.77	16.4 %	ACCEPTABLE
774	-3.64	12.02	13.87	19.7 %	ACCEPTABLE
775	-3.59	11.98	13.82	16.7 %	ACCEPTABLE
776	-3.63	11.97	13.82	19.7 %	ACCEPTABLE

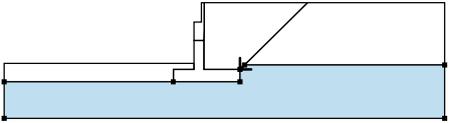


Input data (Stage of construction 2)

Assigning and surfaces

No.	Surface position	Coordinates of surface points [m]				Assigned soil	
		x	z	x	z		
1		-0.40	11.82	-0.40	9.15	Material of structure	
		-1.40	9.15	-1.40	6.65		
		-0.05	6.65	0.00	8.15		
		0.00	9.15	0.00	11.82		
2		32.46	3.32	32.46	11.82	Suelo residual arcillosa de consistencia firme	
		13.92	11.82	5.42	3.32		
3		-0.05	2.70	4.80	2.70	Material de relleno importado	
		5.42	3.32	13.92	11.82		
		0.00	11.82	0.00	9.15		
		0.00	8.15	-0.05	6.65		
4		-1.40	2.70	-4.20	2.70	Material of structure	
		-4.20	1.00	4.80	1.00		
		4.80	2.70	-0.05	2.70		
		-0.05	6.65	-1.40	6.65		
		-1.40	3.50				
5		-4.20	1.00	-4.20	2.70	Suelo residual arcillosa de consistencia firme	
		-1.40	2.70	-1.40	3.50		
		-27.05	3.50	-27.05	1.00		



No.	Surface position	Coordinates of surface points [m]				Assigned soil
		x	z	x	z	
6		5.42	3.32	4.80	2.70	Roca sedimentaria meteorizada
		4.80	1.00	-4.20	1.00	
		-27.05	1.00	-27.05	-4.00	
		32.46	-4.00	32.46	3.32	
						

Surcharge

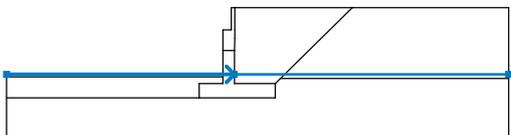
No.	Surcharge		Type	Type of action	Location z [m]	Origin x [m]	Length l [m]	Width b [m]	Slope α [°]	Magnitude		
	new	change								q, q ₁ , f, F, x	q ₂ , z	unit
1	No	No	line	permanent	z = 9.15	x = -0.90			-2.30	300.02		kN/m

Surcharges

No.	Name
1	Bridge

Water

Water type : GWT

No.	GWT location	Coordinates of GWT points [m]					
		x	z	x	z	x	z
1		-27.05	3.82	-0.05	3.82	32.46	3.82

Tensile crack

Tensile crack not input.

Earthquake

Horizontal seismic coefficient : $K_h = 0.3000$

Vertical seismic coefficient : $K_v = 0.2000$

Settings of the stage of construction



Design situation : Service I

Results (Stage of construction 2)

Analysis 1 (stage 2)

Circular slip surface

Slip surface parameters					
Center :	x =	-0.11 [m]	Angles :	$\alpha_1 =$	-47.93 [°]
	z =	27.64 [m]		$\alpha_2 =$	63.95 [°]
Radius :	R =	36.03 [m]			
The slip surface after optimization.					

Slope stability verification (Morgenstern-Price)

Utilization : 39.3 %

CDR CDR: 2.543

Slope stability ACCEPTABLE

Optimization of circular slip surface (Morgenstern-Price)

No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
1	-3.63	11.97	13.82	29.3 %	ACCEPTABLE
2	-3.63	11.97	13.82	29.3 %	ACCEPTABLE
3	-3.63	11.97	13.82	29.3 %	ACCEPTABLE
4	-6.52	32.91	35.48	33.4 %	ACCEPTABLE
5	1.40	16.96	31.29	36.6 %	ACCEPTABLE
6	1.77	14.28	30.59	34.9 %	ACCEPTABLE
7	1.90	13.34	30.39	34.2 %	ACCEPTABLE
8	0.06	18.95	21.59	31.5 %	ACCEPTABLE
9	1.40	16.96	31.29	36.6 %	ACCEPTABLE
10	1.40	16.96	31.29	36.6 %	ACCEPTABLE
11	1.31	14.93	23.28	32.1 %	ACCEPTABLE
12	4.11	23.27	30.39	36.3 %	ACCEPTABLE
13	1.54	15.97	31.00	36.0 %	ACCEPTABLE
14	1.65	15.16	30.79	35.5 %	ACCEPTABLE
15	0.74	17.92	24.42	33.6 %	ACCEPTABLE
16	1.40	16.96	31.29	36.6 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
17	-91.32	675.67	675.26	6.7 %	ACCEPTABLE
18	1.40	16.96	31.29	36.6 %	ACCEPTABLE
19	4.60	12.43	27.67	31.8 %	ACCEPTABLE
20	1.25	16.21	26.14	34.0 %	ACCEPTABLE
21	3.27	20.99	30.40	36.7 %	ACCEPTABLE
22	6.56	15.86	26.02	32.2 %	ACCEPTABLE
23	2.91	20.26	25.52	33.8 %	ACCEPTABLE
24	-1.63	38.44	43.10	37.7 %	ACCEPTABLE
25	1.53	32.20	36.87	37.1 %	ACCEPTABLE
26	-3.20	42.12	42.78	32.3 %	ACCEPTABLE
27	-2.01	55.15	55.25	31.7 %	ACCEPTABLE
28	3.34	20.48	30.19	36.5 %	ACCEPTABLE
29	1.69	31.22	36.21	37.3 %	ACCEPTABLE
30	-0.62	27.04	31.54	36.0 %	ACCEPTABLE
31	-7.25	55.15	55.24	13.4 %	ACCEPTABLE
32	-4.31	48.66	48.36	14.7 %	ACCEPTABLE
33	-1.81	19.89	29.93	37.0 %	ACCEPTABLE
34	1.19	16.51	26.25	34.2 %	ACCEPTABLE
35	-3.02	27.71	33.98	37.5 %	ACCEPTABLE
36	-0.16	24.36	29.93	36.1 %	ACCEPTABLE
37	-1.81	19.89	29.93	37.0 %	ACCEPTABLE
38	-0.56	26.74	31.36	36.0 %	ACCEPTABLE
39	-1.62	38.41	43.07	37.7 %	ACCEPTABLE
40	1.43	32.86	37.32	37.1 %	ACCEPTABLE
41	-129.60	947.57	949.65	6.4 %	ACCEPTABLE
42	-1.62	38.41	43.07	37.7 %	ACCEPTABLE
43	0.37	34.91	39.37	37.4 %	ACCEPTABLE
44	-2.62	40.98	42.84	34.1 %	ACCEPTABLE
45	-3.98	55.16	56.50	33.0 %	ACCEPTABLE
46	-1.57	47.93	49.49	34.1 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
47	1.80	25.39	33.35	38.2 %	ACCEPTABLE
48	3.87	22.24	30.24	36.5 %	ACCEPTABLE
49	1.39	25.57	30.63	36.0 %	ACCEPTABLE
50	2.64	29.99	34.75	36.8 %	ACCEPTABLE
51	4.79	16.51	27.87	34.2 %	ACCEPTABLE
52	3.91	21.99	30.11	36.4 %	ACCEPTABLE
53	2.41	19.57	27.46	35.1 %	ACCEPTABLE
54	1.15	26.97	31.50	35.9 %	ACCEPTABLE
55	-1.70	25.38	33.34	38.3 %	ACCEPTABLE
56	1.86	24.97	33.12	38.2 %	ACCEPTABLE
57	-2.11	25.56	30.62	36.1 %	ACCEPTABLE
58	0.43	34.56	39.12	37.5 %	ACCEPTABLE
59	2.77	18.92	30.33	36.7 %	ACCEPTABLE
60	1.80	25.38	33.34	38.2 %	ACCEPTABLE
61	0.73	21.67	33.03	38.6 %	ACCEPTABLE
62	2.79	18.75	30.27	36.6 %	ACCEPTABLE
63	0.48	21.54	29.90	36.8 %	ACCEPTABLE
64	1.85	25.10	33.19	38.2 %	ACCEPTABLE
65	0.73	21.71	33.05	38.6 %	ACCEPTABLE
66	2.79	18.79	30.28	36.6 %	ACCEPTABLE
67	0.48	21.59	29.92	36.8 %	ACCEPTABLE
68	1.84	25.14	33.21	38.2 %	ACCEPTABLE
69	0.72	21.75	33.06	38.6 %	ACCEPTABLE
70	2.79	18.83	30.30	36.6 %	ACCEPTABLE
71	0.47	21.63	29.93	36.8 %	ACCEPTABLE
72	1.83	25.20	33.24	38.2 %	ACCEPTABLE
73	0.71	21.80	33.09	38.6 %	ACCEPTABLE
74	2.77	18.88	30.32	36.7 %	ACCEPTABLE
75	0.46	21.68	29.96	36.8 %	ACCEPTABLE
76	1.82	25.26	33.27	38.2 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
77	0.71	21.84	33.10	38.6 %	ACCEPTABLE
78	3.48	14.12	28.87	33.8 %	ACCEPTABLE
79	0.81	21.12	32.80	38.4 %	ACCEPTABLE
80	2.77	18.90	30.33	36.6 %	ACCEPTABLE
81	1.48	16.35	31.11	36.2 %	ACCEPTABLE
82	1.28	16.58	27.89	35.0 %	ACCEPTABLE
83	0.32	22.59	30.41	37.0 %	ACCEPTABLE
84	-0.78	19.21	30.44	37.2 %	ACCEPTABLE
85	0.01	13.97	28.83	34.4 %	ACCEPTABLE
86	2.01	12.01	26.75	31.8 %	ACCEPTABLE
87	1.36	16.07	27.73	34.7 %	ACCEPTABLE
88	0.01	13.97	28.83	34.4 %	ACCEPTABLE
89	-0.73	18.90	30.32	37.1 %	ACCEPTABLE
90	1.27	16.64	27.91	35.0 %	ACCEPTABLE
91	0.72	21.79	33.08	38.6 %	ACCEPTABLE
92	2.72	19.22	30.45	36.8 %	ACCEPTABLE
93	-177.43	1287.70	1292.99	6.0 %	ACCEPTABLE
94	0.72	21.79	33.08	38.6 %	ACCEPTABLE
95	2.06	20.02	31.30	37.4 %	ACCEPTABLE
96	0.54	21.82	31.04	37.5 %	ACCEPTABLE
97	0.08	26.29	35.28	39.2 %	ACCEPTABLE
98	1.42	24.40	33.31	38.5 %	ACCEPTABLE
99	-0.18	26.55	33.52	37.9 %	ACCEPTABLE
100	-0.70	31.88	38.59	39.0 %	ACCEPTABLE
101	0.72	29.20	36.01	38.5 %	ACCEPTABLE
102	2.05	20.08	31.32	37.4 %	ACCEPTABLE
103	0.16	25.77	35.00	39.2 %	ACCEPTABLE
104	1.47	24.04	33.12	38.4 %	ACCEPTABLE
105	0.71	21.80	33.09	38.6 %	ACCEPTABLE
106	0.44	22.44	31.33	37.6 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
107	-0.29	27.21	33.90	37.9 %	ACCEPTABLE
108	-0.25	19.86	31.23	37.7 %	ACCEPTABLE
109	1.08	18.29	29.56	36.3 %	ACCEPTABLE
110	-0.77	23.39	32.80	38.6 %	ACCEPTABLE
111	0.54	21.82	31.04	37.5 %	ACCEPTABLE
112	-0.25	19.86	31.23	37.7 %	ACCEPTABLE
113	-0.86	24.04	33.12	38.6 %	ACCEPTABLE
114	0.47	22.29	31.26	37.6 %	ACCEPTABLE
115	0.08	26.29	35.28	39.2 %	ACCEPTABLE
116	1.42	24.38	33.30	38.5 %	ACCEPTABLE
117	0.08	26.29	35.28	39.2 %	ACCEPTABLE
118	0.96	25.11	34.01	38.7 %	ACCEPTABLE
119	-0.10	26.50	34.12	38.4 %	ACCEPTABLE
120	0.52	28.18	35.71	38.8 %	ACCEPTABLE
121	0.06	26.47	35.38	39.3 %	ACCEPTABLE
122	0.94	25.28	34.09	38.7 %	ACCEPTABLE
123	-0.12	26.69	34.23	38.3 %	ACCEPTABLE
124	-0.45	30.07	37.45	39.2 %	ACCEPTABLE
125	0.49	28.37	35.82	38.8 %	ACCEPTABLE
126	1.39	22.17	32.56	38.2 %	ACCEPTABLE
127	0.10	26.15	35.20	39.3 %	ACCEPTABLE
128	0.98	24.98	33.93	38.7 %	ACCEPTABLE
129	-0.08	26.36	34.03	38.3 %	ACCEPTABLE
130	0.54	28.03	35.62	38.8 %	ACCEPTABLE
131	0.08	26.34	35.31	39.3 %	ACCEPTABLE
132	0.96	25.15	34.03	38.7 %	ACCEPTABLE
133	-0.10	26.56	34.15	38.3 %	ACCEPTABLE
134	0.51	28.22	35.73	38.8 %	ACCEPTABLE
135	1.40	22.05	32.51	38.3 %	ACCEPTABLE
136	1.00	24.83	33.85	38.7 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
137	0.31	23.78	32.66	38.2 %	ACCEPTABLE
138	-0.15	26.93	34.36	38.3 %	ACCEPTABLE
139	-0.59	25.07	33.98	38.9 %	ACCEPTABLE
140	-0.13	21.88	32.43	38.5 %	ACCEPTABLE
141	0.76	20.77	31.26	37.6 %	ACCEPTABLE
142	-0.50	24.46	33.67	38.9 %	ACCEPTABLE
143	0.38	23.34	32.44	38.1 %	ACCEPTABLE
144	-0.13	21.88	32.44	38.4 %	ACCEPTABLE
145	-0.55	24.83	33.86	38.9 %	ACCEPTABLE
146	0.34	23.63	32.59	38.2 %	ACCEPTABLE
147	0.08	26.34	35.31	39.3 %	ACCEPTABLE
148	0.97	25.06	33.98	38.7 %	ACCEPTABLE
149	0.08	26.33	35.30	39.3 %	ACCEPTABLE
150	0.66	25.58	34.47	38.9 %	ACCEPTABLE
151	-0.04	26.50	34.54	38.7 %	ACCEPTABLE
152	-0.25	28.66	36.61	39.3 %	ACCEPTABLE
153	0.33	27.89	35.75	39.0 %	ACCEPTABLE
154	-0.39	28.90	35.93	38.6 %	ACCEPTABLE
155	0.02	30.07	37.05	38.9 %	ACCEPTABLE
156	0.67	25.49	34.42	38.9 %	ACCEPTABLE
157	-0.22	28.44	36.48	39.2 %	ACCEPTABLE
158	0.37	27.58	35.57	39.0 %	ACCEPTABLE
159	0.08	26.34	35.31	39.3 %	ACCEPTABLE
160	-0.10	26.87	34.74	38.6 %	ACCEPTABLE
161	-0.43	29.16	36.09	38.6 %	ACCEPTABLE
162	-0.34	25.33	34.33	38.9 %	ACCEPTABLE
163	0.25	24.51	33.47	38.5 %	ACCEPTABLE
164	-0.63	27.32	35.42	39.0 %	ACCEPTABLE
165	-0.04	26.50	34.53	38.7 %	ACCEPTABLE
166	-0.35	25.33	34.34	38.9 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
167	-0.07	26.71	34.66	38.7 %	ACCEPTABLE
168	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
169	0.32	27.90	35.75	39.0 %	ACCEPTABLE
170	-0.39	28.91	35.94	38.6 %	ACCEPTABLE
171	0.01	30.07	37.05	38.9 %	ACCEPTABLE
172	0.67	25.49	34.42	38.9 %	ACCEPTABLE
173	-0.22	28.44	36.48	39.2 %	ACCEPTABLE
174	0.37	27.58	35.57	39.0 %	ACCEPTABLE
175	0.08	26.34	35.31	39.3 %	ACCEPTABLE
176	-0.10	26.88	34.75	38.6 %	ACCEPTABLE
177	-0.43	29.17	36.10	38.6 %	ACCEPTABLE
178	-0.34	25.34	34.34	38.9 %	ACCEPTABLE
179	0.25	24.52	33.48	38.6 %	ACCEPTABLE
180	-0.63	27.33	35.43	39.0 %	ACCEPTABLE
181	-0.04	26.51	34.54	38.7 %	ACCEPTABLE
182	-0.35	25.34	34.34	38.9 %	ACCEPTABLE
183	-0.07	26.72	34.67	38.7 %	ACCEPTABLE
184	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
185	0.34	27.77	35.68	39.0 %	ACCEPTABLE
186	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
187	0.13	28.17	36.05	39.1 %	ACCEPTABLE
188	-0.34	28.84	36.17	38.8 %	ACCEPTABLE
189	-0.07	29.59	36.90	39.0 %	ACCEPTABLE
190	0.37	26.52	35.12	39.1 %	ACCEPTABLE
191	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
192	0.15	28.03	35.97	39.1 %	ACCEPTABLE
193	-0.32	28.68	36.07	38.8 %	ACCEPTABLE
194	-0.47	30.20	37.54	39.2 %	ACCEPTABLE
195	-0.05	29.44	36.80	39.0 %	ACCEPTABLE
196	-0.25	28.64	36.60	39.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
197	0.39	26.38	35.04	39.1 %	ACCEPTABLE
198	-0.21	28.38	36.45	39.3 %	ACCEPTABLE
199	0.18	27.80	35.84	39.1 %	ACCEPTABLE
200	-0.01	26.96	35.65	39.3 %	ACCEPTABLE
201	-0.13	27.33	35.29	38.9 %	ACCEPTABLE
202	-0.35	28.84	36.17	38.8 %	ACCEPTABLE
203	0.10	25.71	34.39	38.8 %	ACCEPTABLE
204	-0.09	27.08	35.15	38.9 %	ACCEPTABLE
205	-0.11	27.22	35.23	38.9 %	ACCEPTABLE
206	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
207	0.17	27.93	35.91	39.1 %	ACCEPTABLE
208	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
209	0.02	28.20	36.16	39.2 %	ACCEPTABLE
210	-0.29	28.63	36.23	39.0 %	ACCEPTABLE
211	-0.11	29.13	36.71	39.1 %	ACCEPTABLE
212	-0.24	28.60	36.58	39.3 %	ACCEPTABLE
213	0.18	27.08	35.52	39.1 %	ACCEPTABLE
214	-0.22	28.43	36.48	39.3 %	ACCEPTABLE
215	0.05	28.04	36.07	39.1 %	ACCEPTABLE
216	-0.16	27.73	35.70	39.0 %	ACCEPTABLE
217	-0.57	29.13	36.71	39.1 %	ACCEPTABLE
218	-0.31	28.73	36.29	38.9 %	ACCEPTABLE
219	-0.27	27.00	35.48	39.1 %	ACCEPTABLE
220	0.00	26.62	35.08	39.0 %	ACCEPTABLE
221	-0.14	27.56	35.60	39.0 %	ACCEPTABLE
222	-0.27	27.00	35.48	39.1 %	ACCEPTABLE
223	-0.15	27.65	35.66	39.0 %	ACCEPTABLE
224	-0.23	28.52	36.53	39.3 %	ACCEPTABLE
225	0.03	28.13	36.12	39.1 %	ACCEPTABLE
226	-0.23	28.52	36.53	39.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
227	-0.06	28.31	36.28	39.2 %	ACCEPTABLE
228	-0.27	28.60	36.33	39.1 %	ACCEPTABLE
229	-0.33	29.26	36.96	39.2 %	ACCEPTABLE
230	-0.15	28.92	36.64	39.1 %	ACCEPTABLE
231	-0.24	28.58	36.57	39.3 %	ACCEPTABLE
232	0.05	27.55	35.85	39.2 %	ACCEPTABLE
233	-0.22	28.46	36.50	39.3 %	ACCEPTABLE
234	-0.05	28.20	36.22	39.2 %	ACCEPTABLE
235	-0.13	27.81	36.13	39.3 %	ACCEPTABLE
236	0.04	27.59	35.88	39.2 %	ACCEPTABLE
237	-0.17	27.88	35.92	39.1 %	ACCEPTABLE
238	-0.23	28.50	36.52	39.2 %	ACCEPTABLE
239	-0.05	28.19	36.22	39.2 %	ACCEPTABLE
240	-0.14	27.85	36.14	39.3 %	ACCEPTABLE
241	0.14	26.86	35.47	39.2 %	ACCEPTABLE
242	-0.12	27.74	36.08	39.3 %	ACCEPTABLE
243	0.05	27.49	35.82	39.2 %	ACCEPTABLE
244	-0.03	27.11	35.73	39.3 %	ACCEPTABLE
245	-0.09	27.29	35.59	39.1 %	ACCEPTABLE
246	-0.18	27.94	35.95	39.1 %	ACCEPTABLE
247	-0.26	27.54	35.85	39.2 %	ACCEPTABLE
248	-0.15	26.81	35.44	39.2 %	ACCEPTABLE
249	0.02	26.56	35.18	39.1 %	ACCEPTABLE
250	-0.07	27.18	35.53	39.1 %	ACCEPTABLE
251	-0.15	26.81	35.44	39.2 %	ACCEPTABLE
252	-0.25	27.49	35.82	39.2 %	ACCEPTABLE
253	-0.08	27.24	35.56	39.1 %	ACCEPTABLE
254	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
255	0.04	27.54	35.85	39.2 %	ACCEPTABLE
256	-0.13	27.79	36.11	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
257	-0.02	27.66	35.96	39.2 %	ACCEPTABLE
258	-0.16	27.86	35.99	39.2 %	ACCEPTABLE
259	-0.08	28.06	36.19	39.2 %	ACCEPTABLE
260	-0.13	27.83	36.13	39.3 %	ACCEPTABLE
261	0.05	27.17	35.68	39.2 %	ACCEPTABLE
262	-0.12	27.76	36.09	39.3 %	ACCEPTABLE
263	-0.01	27.59	35.92	39.2 %	ACCEPTABLE
264	-0.10	27.46	35.77	39.2 %	ACCEPTABLE
265	-0.16	27.89	36.01	39.2 %	ACCEPTABLE
266	-0.21	27.63	35.94	39.2 %	ACCEPTABLE
267	-0.03	26.97	35.49	39.1 %	ACCEPTABLE
268	-0.20	27.56	35.90	39.2 %	ACCEPTABLE
269	-0.21	27.59	35.92	39.2 %	ACCEPTABLE
270	-0.10	27.43	35.75	39.2 %	ACCEPTABLE
271	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
272	-0.02	27.63	35.94	39.2 %	ACCEPTABLE
273	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
274	-0.06	27.71	36.01	39.3 %	ACCEPTABLE
275	-0.15	27.84	36.04	39.2 %	ACCEPTABLE
276	-0.10	27.97	36.16	39.2 %	ACCEPTABLE
277	-0.13	27.82	36.13	39.3 %	ACCEPTABLE
278	-0.13	27.77	36.10	39.3 %	ACCEPTABLE
279	-0.05	27.66	35.99	39.3 %	ACCEPTABLE
280	-0.11	27.58	35.89	39.2 %	ACCEPTABLE
281	-0.15	27.87	36.05	39.2 %	ACCEPTABLE
282	-0.18	27.69	36.00	39.3 %	ACCEPTABLE
283	-0.06	27.25	35.70	39.2 %	ACCEPTABLE
284	-0.18	27.64	35.97	39.3 %	ACCEPTABLE
285	-0.10	27.53	35.86	39.2 %	ACCEPTABLE
286	-0.18	27.66	35.99	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
287	-0.11	27.56	35.87	39.2 %	ACCEPTABLE
288	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
289	-0.06	27.69	36.00	39.3 %	ACCEPTABLE
290	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
291	-0.08	27.74	36.05	39.3 %	ACCEPTABLE
292	-0.14	27.83	36.07	39.2 %	ACCEPTABLE
293	-0.11	27.91	36.15	39.3 %	ACCEPTABLE
294	-0.13	27.81	36.12	39.3 %	ACCEPTABLE
295	-0.13	27.78	36.10	39.3 %	ACCEPTABLE
296	-0.08	27.71	36.03	39.3 %	ACCEPTABLE
297	-0.10	27.59	36.00	39.3 %	ACCEPTABLE
298	-0.12	27.66	35.97	39.3 %	ACCEPTABLE
299	-0.14	27.85	36.08	39.2 %	ACCEPTABLE
300	-0.16	27.73	36.04	39.3 %	ACCEPTABLE
301	-0.16	27.69	36.02	39.3 %	ACCEPTABLE
302	-0.11	27.62	35.95	39.2 %	ACCEPTABLE
303	-0.16	27.71	36.03	39.3 %	ACCEPTABLE
304	-0.11	27.64	35.96	39.3 %	ACCEPTABLE
305	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
306	-0.08	27.72	36.04	39.3 %	ACCEPTABLE
307	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
308	-0.10	27.76	36.07	39.3 %	ACCEPTABLE
309	-0.14	27.82	36.09	39.3 %	ACCEPTABLE
310	-0.15	27.93	36.19	39.3 %	ACCEPTABLE
311	-0.12	27.88	36.14	39.3 %	ACCEPTABLE
312	-0.13	27.80	36.12	39.3 %	ACCEPTABLE
313	-0.08	27.61	35.99	39.3 %	ACCEPTABLE
314	-0.13	27.78	36.11	39.3 %	ACCEPTABLE
315	-0.10	27.74	36.06	39.3 %	ACCEPTABLE
316	-0.11	27.66	36.04	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
317	-0.08	27.62	35.99	39.3 %	ACCEPTABLE
318	-0.12	27.67	36.00	39.3 %	ACCEPTABLE
319	-0.13	27.79	36.11	39.3 %	ACCEPTABLE
320	-0.09	27.73	36.06	39.3 %	ACCEPTABLE
321	-0.11	27.67	36.04	39.3 %	ACCEPTABLE
322	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
323	-0.08	27.60	35.98	39.3 %	ACCEPTABLE
324	-0.12	27.65	35.99	39.3 %	ACCEPTABLE
325	-0.13	27.77	36.10	39.3 %	ACCEPTABLE
326	-0.09	27.71	36.05	39.3 %	ACCEPTABLE
327	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
328	-0.10	27.62	36.02	39.3 %	ACCEPTABLE
329	-0.07	27.58	35.97	39.3 %	ACCEPTABLE
330	-0.10	27.54	35.92	39.2 %	ACCEPTABLE
331	-0.15	27.71	36.04	39.3 %	ACCEPTABLE
332	-0.12	27.66	35.99	39.3 %	ACCEPTABLE
333	-0.13	27.58	35.97	39.3 %	ACCEPTABLE
334	-0.13	27.57	35.96	39.3 %	ACCEPTABLE
335	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
336	-0.08	27.59	35.98	39.3 %	ACCEPTABLE
337	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
338	-0.09	27.61	36.00	39.3 %	ACCEPTABLE
339	-0.12	27.65	36.00	39.3 %	ACCEPTABLE
340	-0.12	27.72	36.07	39.3 %	ACCEPTABLE
341	-0.10	27.69	36.04	39.3 %	ACCEPTABLE
342	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
343	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
344	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
345	-0.10	27.57	35.96	39.3 %	ACCEPTABLE
346	-0.14	27.68	36.04	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
347	-0.12	27.66	36.01	39.3 %	ACCEPTABLE
348	-0.12	27.60	35.99	39.3 %	ACCEPTABLE
349	-0.12	27.59	35.98	39.3 %	ACCEPTABLE
350	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
351	-0.12	27.59	35.98	39.3 %	ACCEPTABLE
352	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
353	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
354	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
355	-0.28	20.37	22.41	31.7 %	ACCEPTABLE
356	-1.46	37.25	42.23	38.0 %	ACCEPTABLE
357	7.61	13.41	24.70	29.5 %	ACCEPTABLE
358	-99.67	734.97	735.08	6.4 %	ACCEPTABLE
359	-20.19	171.40	167.98	9.8 %	ACCEPTABLE
360	-1.19	35.35	40.90	38.4 %	ACCEPTABLE
361	7.80	12.32	24.47	28.6 %	ACCEPTABLE
362	-49.36	377.54	374.72	7.3 %	ACCEPTABLE
363	-12.57	128.06	124.58	10.4 %	ACCEPTABLE
364	6.29	20.88	27.50	33.9 %	ACCEPTABLE
365	1.93	13.16	30.36	34.1 %	ACCEPTABLE
366	-24.39	128.10	124.63	4.4 %	ACCEPTABLE
367	-29.53	145.10	142.34	4.3 %	ACCEPTABLE
368	-5.93	23.18	28.72	34.9 %	ACCEPTABLE
369	-5.53	20.88	27.51	35.0 %	ACCEPTABLE
370	1.25	13.89	19.31	29.3 %	ACCEPTABLE
371	-1.19	35.35	40.90	38.4 %	ACCEPTABLE
372	-61.94	466.93	464.76	7.0 %	ACCEPTABLE
373	-1.19	35.35	40.90	38.4 %	ACCEPTABLE
374	3.98	24.05	30.81	36.5 %	ACCEPTABLE
375	-3.04	37.60	37.64	31.5 %	ACCEPTABLE
376	-2.22	62.25	61.09	1.8 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
377	-1.19	35.32	40.88	38.4 %	ACCEPTABLE
378	5.76	13.11	26.53	31.4 %	ACCEPTABLE
379	-0.58	30.97	38.01	39.1 %	ACCEPTABLE
380	4.58	20.39	28.98	35.7 %	ACCEPTABLE
381	-1.75	30.87	32.34	33.4 %	ACCEPTABLE
382	-6.22	71.04	70.62	10.3 %	ACCEPTABLE
383	-0.16	49.58	49.77	32.6 %	ACCEPTABLE
384	4.26	22.33	29.91	36.2 %	ACCEPTABLE
385	1.49	16.29	31.09	36.1 %	ACCEPTABLE
386	1.14	15.82	23.58	32.6 %	ACCEPTABLE
387	-3.66	40.79	40.31	3.4 %	ACCEPTABLE
388	-3.84	23.67	30.60	36.8 %	ACCEPTABLE
389	-2.82	17.42	27.77	35.7 %	ACCEPTABLE
390	1.43	14.28	23.07	31.7 %	ACCEPTABLE
391	-3.62	22.33	29.90	36.8 %	ACCEPTABLE
392	0.89	17.10	24.07	33.3 %	ACCEPTABLE
393	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
394	4.58	20.39	28.98	35.7 %	ACCEPTABLE
395	-1.76	30.89	32.35	33.3 %	ACCEPTABLE
396	-0.16	49.58	49.77	32.6 %	ACCEPTABLE
397	4.26	22.34	29.91	36.2 %	ACCEPTABLE
398	1.49	16.29	31.09	36.1 %	ACCEPTABLE
399	1.13	15.83	23.59	32.7 %	ACCEPTABLE
400	-3.66	40.80	40.32	3.4 %	ACCEPTABLE
401	-3.84	23.68	30.61	36.8 %	ACCEPTABLE
402	-2.82	17.42	27.77	35.7 %	ACCEPTABLE
403	1.43	14.29	23.08	31.7 %	ACCEPTABLE
404	-3.62	22.33	29.90	36.8 %	ACCEPTABLE
405	0.89	17.11	24.08	33.3 %	ACCEPTABLE
406	-0.58	30.98	38.02	39.1 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
407	4.04	23.68	30.61	36.4 %	ACCEPTABLE
408	-91.34	675.84	675.42	6.5 %	ACCEPTABLE
409	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
410	2.62	25.22	32.53	37.4 %	ACCEPTABLE
411	-1.44	31.86	34.79	35.1 %	ACCEPTABLE
412	0.17	41.09	43.43	35.3 %	ACCEPTABLE
413	3.96	16.50	28.68	34.7 %	ACCEPTABLE
414	2.63	25.16	32.50	37.4 %	ACCEPTABLE
415	0.93	20.24	32.44	38.1 %	ACCEPTABLE
416	0.39	21.15	28.20	35.8 %	ACCEPTABLE
417	-2.09	35.68	37.63	34.1 %	ACCEPTABLE
418	-2.78	26.16	33.06	37.6 %	ACCEPTABLE
419	-1.23	16.14	28.57	35.4 %	ACCEPTABLE
420	1.77	13.10	25.27	31.9 %	ACCEPTABLE
421	0.66	19.58	27.46	35.4 %	ACCEPTABLE
422	-1.23	16.14	28.57	35.4 %	ACCEPTABLE
423	0.37	21.26	28.25	35.8 %	ACCEPTABLE
424	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
425	2.47	26.16	33.06	37.5 %	ACCEPTABLE
426	-129.75	948.74	950.83	6.2 %	ACCEPTABLE
427	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
428	1.46	27.66	34.63	38.3 %	ACCEPTABLE
429	-1.16	31.84	35.99	36.5 %	ACCEPTABLE
430	0.06	37.05	40.91	37.0 %	ACCEPTABLE
431	2.52	20.62	31.02	37.3 %	ACCEPTABLE
432	1.55	27.08	34.29	38.3 %	ACCEPTABLE
433	0.01	24.52	31.42	37.1 %	ACCEPTABLE
434	-3.44	37.04	40.90	36.4 %	ACCEPTABLE
435	-1.44	33.62	37.24	36.1 %	ACCEPTABLE
436	-2.06	27.78	34.70	38.2 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
437	1.07	17.90	28.35	35.6 %	ACCEPTABLE
438	-1.73	25.61	33.46	38.3 %	ACCEPTABLE
439	0.21	23.27	30.76	37.0 %	ACCEPTABLE
440	-1.95	27.07	34.29	38.3 %	ACCEPTABLE
441	0.05	24.29	31.30	37.1 %	ACCEPTABLE
442	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
443	1.44	27.79	34.71	38.3 %	ACCEPTABLE
444	-177.65	1289.07	1294.38	6.2 %	ACCEPTABLE
445	-0.58	30.98	38.02	39.1 %	ACCEPTABLE
446	0.75	28.99	35.89	38.6 %	ACCEPTABLE
447	-0.96	31.65	36.70	37.4 %	ACCEPTABLE
448	-0.11	34.79	39.69	37.8 %	ACCEPTABLE
449	1.52	23.70	32.96	38.4 %	ACCEPTABLE
450	0.84	28.37	35.51	38.6 %	ACCEPTABLE
451	0.18	25.58	34.90	39.2 %	ACCEPTABLE
452	1.52	23.71	32.96	38.4 %	ACCEPTABLE
453	-0.07	25.79	33.08	37.8 %	ACCEPTABLE
454	-0.58	30.99	38.02	39.1 %	ACCEPTABLE
455	0.84	28.37	35.51	38.6 %	ACCEPTABLE
456	2.13	19.53	31.10	37.2 %	ACCEPTABLE
457	1.57	23.38	32.80	38.3 %	ACCEPTABLE
458	0.80	21.22	32.84	38.4 %	ACCEPTABLE
459	0.54	21.79	31.02	37.5 %	ACCEPTABLE
460	-1.50	28.37	35.51	38.6 %	ACCEPTABLE
461	-0.17	26.42	33.44	37.9 %	ACCEPTABLE
462	-0.17	19.31	31.01	37.5 %	ACCEPTABLE
463	1.16	17.76	29.37	36.1 %	ACCEPTABLE
464	-0.68	22.76	32.49	38.4 %	ACCEPTABLE
465	0.63	21.21	30.75	37.3 %	ACCEPTABLE
466	-0.17	19.31	31.01	37.5 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
467	-0.77	23.38	32.79	38.5 %	ACCEPTABLE
468	0.56	21.66	30.96	37.4 %	ACCEPTABLE
469	0.18	25.59	34.91	39.3 %	ACCEPTABLE
470	1.52	23.71	32.96	38.4 %	ACCEPTABLE
471	-0.07	25.80	33.09	37.8 %	ACCEPTABLE
472	-0.58	30.99	38.02	39.1 %	ACCEPTABLE
473	0.84	28.38	35.52	38.6 %	ACCEPTABLE
474	2.13	19.53	31.10	37.2 %	ACCEPTABLE
475	1.57	23.39	32.80	38.3 %	ACCEPTABLE
476	0.80	21.22	32.84	38.4 %	ACCEPTABLE
477	0.54	21.80	31.03	37.5 %	ACCEPTABLE
478	-0.17	26.43	33.45	37.9 %	ACCEPTABLE
479	-0.17	19.32	31.02	37.5 %	ACCEPTABLE
480	1.16	17.77	29.37	36.1 %	ACCEPTABLE
481	-0.68	22.76	32.50	38.4 %	ACCEPTABLE
482	0.63	21.22	30.76	37.3 %	ACCEPTABLE
483	-0.17	19.32	31.02	37.5 %	ACCEPTABLE
484	-0.77	23.39	32.80	38.6 %	ACCEPTABLE
485	0.56	21.66	30.97	37.4 %	ACCEPTABLE
486	0.18	25.59	34.91	39.3 %	ACCEPTABLE
487	1.52	23.71	32.96	38.4 %	ACCEPTABLE
488	0.18	25.59	34.91	39.3 %	ACCEPTABLE
489	1.06	24.42	33.65	38.7 %	ACCEPTABLE
490	0.01	25.77	33.71	38.3 %	ACCEPTABLE
491	0.63	27.40	35.26	38.8 %	ACCEPTABLE
492	0.16	25.75	34.99	39.2 %	ACCEPTABLE
493	1.49	21.42	32.23	38.1 %	ACCEPTABLE
494	1.10	24.12	33.50	38.6 %	ACCEPTABLE
495	0.41	23.08	32.31	38.1 %	ACCEPTABLE
496	-0.04	26.12	33.91	38.3 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
497	-0.48	24.34	33.61	38.9 %	ACCEPTABLE
498	-0.04	21.25	32.16	38.3 %	ACCEPTABLE
499	0.85	20.16	31.00	37.4 %	ACCEPTABLE
500	-0.40	23.76	33.32	38.8 %	ACCEPTABLE
501	0.47	22.66	32.11	38.0 %	ACCEPTABLE
502	-0.04	21.25	32.16	38.3 %	ACCEPTABLE
503	-0.45	24.12	33.49	38.8 %	ACCEPTABLE
504	0.43	22.94	32.25	38.1 %	ACCEPTABLE
505	0.18	25.59	34.91	39.3 %	ACCEPTABLE
506	1.07	24.34	33.61	38.7 %	ACCEPTABLE
507	0.18	25.59	34.91	39.3 %	ACCEPTABLE
508	0.76	24.85	34.09	38.9 %	ACCEPTABLE
509	0.07	25.73	34.12	38.6 %	ACCEPTABLE
510	-0.13	27.83	36.14	39.3 %	ACCEPTABLE
511	0.44	27.06	35.28	39.0 %	ACCEPTABLE
512	-0.26	28.04	35.43	38.6 %	ACCEPTABLE
513	0.14	29.16	36.50	38.9 %	ACCEPTABLE
514	0.77	24.74	34.03	38.9 %	ACCEPTABLE
515	-0.10	27.60	36.00	39.3 %	ACCEPTABLE
516	0.48	26.84	35.15	39.0 %	ACCEPTABLE
517	-0.23	27.80	35.28	38.6 %	ACCEPTABLE
518	-0.45	30.07	37.46	39.2 %	ACCEPTABLE
519	0.18	28.93	36.36	38.9 %	ACCEPTABLE
520	-0.12	27.76	36.09	39.3 %	ACCEPTABLE
521	0.81	24.55	33.93	38.8 %	ACCEPTABLE
522	0.52	26.55	34.99	38.9 %	ACCEPTABLE
523	0.05	25.85	34.18	38.6 %	ACCEPTABLE
524	-0.86	28.93	36.36	38.9 %	ACCEPTABLE
525	-0.27	28.04	35.42	38.6 %	ACCEPTABLE
526	-0.55	26.73	35.09	39.0 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
527	-0.21	24.40	33.85	38.8 %	ACCEPTABLE
528	0.38	23.60	33.01	38.4 %	ACCEPTABLE
529	0.10	25.51	33.99	38.6 %	ACCEPTABLE
530	-0.21	24.41	33.86	38.8 %	ACCEPTABLE
531	-0.52	26.56	35.00	38.9 %	ACCEPTABLE
532	0.07	25.71	34.10	38.6 %	ACCEPTABLE
533	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
534	0.48	26.85	35.16	39.0 %	ACCEPTABLE
535	-0.23	27.81	35.29	38.6 %	ACCEPTABLE
536	-0.45	30.07	37.46	39.2 %	ACCEPTABLE
537	0.18	28.93	36.36	38.9 %	ACCEPTABLE
538	-0.12	27.76	36.09	39.3 %	ACCEPTABLE
539	0.80	24.55	33.93	38.8 %	ACCEPTABLE
540	0.52	26.56	35.00	38.9 %	ACCEPTABLE
541	0.05	25.86	34.19	38.6 %	ACCEPTABLE
542	-0.86	28.94	36.37	38.9 %	ACCEPTABLE
543	-0.27	28.05	35.43	38.6 %	ACCEPTABLE
544	-0.55	26.74	35.10	39.0 %	ACCEPTABLE
545	-0.21	24.41	33.86	38.8 %	ACCEPTABLE
546	0.38	23.61	33.02	38.5 %	ACCEPTABLE
547	0.10	25.52	34.00	38.6 %	ACCEPTABLE
548	-0.21	24.41	33.87	38.8 %	ACCEPTABLE
549	-0.52	26.56	35.00	38.9 %	ACCEPTABLE
550	0.07	25.72	34.11	38.6 %	ACCEPTABLE
551	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
552	0.49	26.73	35.09	39.0 %	ACCEPTABLE
553	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
554	0.28	27.12	35.45	39.1 %	ACCEPTABLE
555	-0.19	27.75	35.53	38.9 %	ACCEPTABLE
556	-0.33	29.22	36.94	39.2 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
557	0.09	28.48	36.23	39.1 %	ACCEPTABLE
558	-0.12	27.72	36.07	39.3 %	ACCEPTABLE
559	0.51	25.54	34.59	39.0 %	ACCEPTABLE
560	0.31	26.91	35.33	39.1 %	ACCEPTABLE
561	0.00	26.45	34.79	38.9 %	ACCEPTABLE
562	-0.21	27.90	35.62	38.9 %	ACCEPTABLE
563	-0.17	25.44	34.54	39.0 %	ACCEPTABLE
564	0.22	24.89	33.96	38.8 %	ACCEPTABLE
565	-0.36	26.76	35.26	39.1 %	ACCEPTABLE
566	0.03	26.21	34.67	38.8 %	ACCEPTABLE
567	-0.17	25.44	34.54	39.0 %	ACCEPTABLE
568	0.02	26.34	34.74	38.9 %	ACCEPTABLE
569	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
570	0.29	27.03	35.40	39.1 %	ACCEPTABLE
571	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
572	0.15	27.29	35.64	39.1 %	ACCEPTABLE
573	-0.16	27.71	35.69	39.0 %	ACCEPTABLE
574	-0.25	28.67	36.62	39.3 %	ACCEPTABLE
575	0.03	28.19	36.15	39.2 %	ACCEPTABLE
576	-0.11	27.68	36.05	39.3 %	ACCEPTABLE
577	0.30	26.21	35.05	39.1 %	ACCEPTABLE
578	0.17	27.14	35.56	39.2 %	ACCEPTABLE
579	-0.03	26.83	35.20	39.0 %	ACCEPTABLE
580	-0.44	28.19	36.16	39.2 %	ACCEPTABLE
581	-0.17	27.80	35.74	39.0 %	ACCEPTABLE
582	-0.14	26.14	35.01	39.1 %	ACCEPTABLE
583	0.12	25.77	34.62	39.0 %	ACCEPTABLE
584	-0.01	26.68	35.11	39.0 %	ACCEPTABLE
585	-0.15	26.14	35.01	39.1 %	ACCEPTABLE
586	-0.02	26.76	35.16	39.0 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
587	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
588	0.16	27.22	35.60	39.2 %	ACCEPTABLE
589	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
590	0.07	27.40	35.76	39.2 %	ACCEPTABLE
591	-0.14	27.68	35.80	39.1 %	ACCEPTABLE
592	-0.02	27.99	36.10	39.2 %	ACCEPTABLE
593	-0.11	27.66	36.04	39.3 %	ACCEPTABLE
594	0.17	26.67	35.36	39.2 %	ACCEPTABLE
595	0.08	27.29	35.71	39.2 %	ACCEPTABLE
596	-0.01	26.93	35.63	39.3 %	ACCEPTABLE
597	-0.06	27.09	35.47	39.1 %	ACCEPTABLE
598	-0.15	27.73	35.83	39.1 %	ACCEPTABLE
599	0.05	26.37	35.07	39.1 %	ACCEPTABLE
600	-0.04	26.99	35.41	39.1 %	ACCEPTABLE
601	-0.05	27.04	35.44	39.1 %	ACCEPTABLE
602	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
603	0.07	27.35	35.74	39.2 %	ACCEPTABLE
604	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
605	0.01	27.47	35.84	39.2 %	ACCEPTABLE
606	-0.13	27.65	35.87	39.2 %	ACCEPTABLE
607	-0.04	27.86	36.07	39.2 %	ACCEPTABLE
608	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
609	-0.14	27.68	35.89	39.2 %	ACCEPTABLE
610	-0.05	27.89	36.09	39.2 %	ACCEPTABLE
611	-0.11	27.67	36.04	39.3 %	ACCEPTABLE
612	0.07	27.01	35.59	39.2 %	ACCEPTABLE
613	-0.10	27.60	36.00	39.3 %	ACCEPTABLE
614	0.01	27.43	35.83	39.3 %	ACCEPTABLE
615	-0.04	27.18	35.77	39.3 %	ACCEPTABLE
616	-0.08	27.30	35.67	39.2 %	ACCEPTABLE



No.	Center		Radius R [m]	Utilization	Verification
	x [m]	z [m]			
617	-0.14	27.72	35.91	39.2 %	ACCEPTABLE
618	-0.12	26.97	35.57	39.2 %	ACCEPTABLE
619	-0.01	26.81	35.40	39.1 %	ACCEPTABLE
620	-0.07	27.22	35.63	39.1 %	ACCEPTABLE
621	-0.12	26.97	35.57	39.2 %	ACCEPTABLE
622	-0.08	27.26	35.65	39.2 %	ACCEPTABLE
623	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
624	0.01	27.47	35.85	39.3 %	ACCEPTABLE
625	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
626	-0.04	27.55	35.92	39.3 %	ACCEPTABLE
627	-0.13	27.67	35.94	39.2 %	ACCEPTABLE
628	-0.07	27.81	36.07	39.3 %	ACCEPTABLE
629	-0.11	27.66	36.04	39.3 %	ACCEPTABLE
630	0.01	27.22	35.74	39.2 %	ACCEPTABLE
631	-0.10	27.61	36.01	39.3 %	ACCEPTABLE
632	-0.20	27.80	36.06	39.3 %	ACCEPTABLE
633	-0.13	27.70	35.95	39.2 %	ACCEPTABLE
634	-0.04	27.08	35.61	39.2 %	ACCEPTABLE
635	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
636	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
637	-0.06	27.58	35.96	39.3 %	ACCEPTABLE
638	-0.12	27.66	35.97	39.3 %	ACCEPTABLE
639	-0.14	27.84	36.14	39.3 %	ACCEPTABLE
640	-0.09	27.75	36.06	39.3 %	ACCEPTABLE
641	-0.11	27.65	36.03	39.3 %	ACCEPTABLE
642	-0.10	27.62	36.01	39.3 %	ACCEPTABLE
643	-0.06	27.55	35.94	39.3 %	ACCEPTABLE
644	-0.17	27.75	36.05	39.3 %	ACCEPTABLE
645	-0.12	27.68	35.98	39.3 %	ACCEPTABLE
646	-0.14	27.56	35.94	39.3 %	ACCEPTABLE



No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
647	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
648	-0.06	27.56	35.95	39.3 %	ACCEPTABLE
649	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
650	-0.08	27.60	35.98	39.3 %	ACCEPTABLE
651	-0.12	27.65	35.99	39.3 %	ACCEPTABLE
652	-0.13	27.77	36.10	39.3 %	ACCEPTABLE
653	-0.09	27.71	36.05	39.3 %	ACCEPTABLE
654	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
655	-0.10	27.62	36.02	39.3 %	ACCEPTABLE
656	-0.07	27.58	35.97	39.3 %	ACCEPTABLE
657	-0.10	27.54	35.92	39.2 %	ACCEPTABLE
658	-0.15	27.71	36.04	39.3 %	ACCEPTABLE
659	-0.12	27.66	35.99	39.3 %	ACCEPTABLE
660	-0.13	27.58	35.97	39.3 %	ACCEPTABLE
661	-0.13	27.57	35.96	39.3 %	ACCEPTABLE
662	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
663	-0.08	27.59	35.98	39.3 %	ACCEPTABLE
664	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
665	-0.09	27.61	36.00	39.3 %	ACCEPTABLE
666	-0.12	27.65	36.00	39.3 %	ACCEPTABLE
667	-0.12	27.72	36.07	39.3 %	ACCEPTABLE
668	-0.10	27.69	36.04	39.3 %	ACCEPTABLE
669	-0.11	27.64	36.03	39.3 %	ACCEPTABLE
670	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
671	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
672	-0.10	27.57	35.96	39.3 %	ACCEPTABLE
673	-0.14	27.68	36.04	39.3 %	ACCEPTABLE
674	-0.12	27.66	36.01	39.3 %	ACCEPTABLE
675	-0.12	27.60	35.99	39.3 %	ACCEPTABLE
676	-0.12	27.59	35.98	39.3 %	ACCEPTABLE



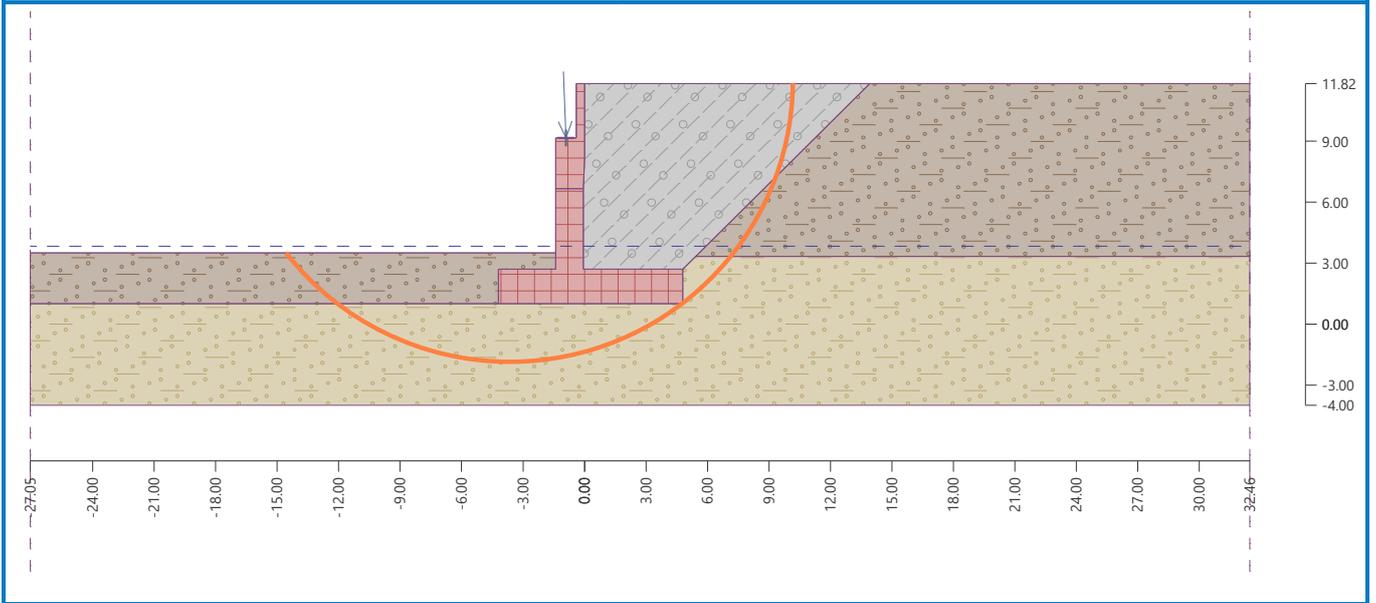
No.	Center		Radius	Utilization	Verification
	x [m]	z [m]	R [m]		
677	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
678	-0.12	27.59	35.98	39.3 %	ACCEPTABLE
679	-0.10	27.56	35.95	39.3 %	ACCEPTABLE
680	-0.11	27.63	36.02	39.3 %	ACCEPTABLE
681	-0.09	27.60	35.99	39.3 %	ACCEPTABLE
682	-0.11	27.64	36.03	39.3 %	ACCEPTABLE

Annexes



Name : Analysis

Stage - analysis : 1 - 1



Name : Analysis

Stage - analysis : 2 - 1

