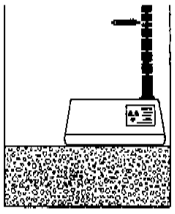


Laboratory Equipment Supplies

Conversion factors

SI units

In these conversion tables, SI units are shown in bold blue type.

Where SI units differ from technical metric units, the conversions are given for both.

The following list details the main SI units and their symbols which are used throughout these tables.

Length:	metre,	m
Area:	square metre,	m^2
Volume:	cubic metre,	m^3
Mass:	kilogram,	kg
Density:	kilograms per cubic metre,	kg/m^3
Force:	newton,	N
Pressure, stress:	pascal,	Pa (N/m^2)
Viscosity, dynamic:	pascal second	Pa s
Viscosity, kinematic:	square metre per second	m^2/s
Energy:	joule	J
Power:	watt	W (J/s)

Length

1 km	0.621371 mile
1 m	1.09361 yd 3.2808 ft
1 cm	0.393701 in
1 mm	0.03937 in
1 μm	39.3701 μin
1 mile	**1.60934 km**
1 yd	**0.9144 m**
1 ft	**0.3048 m**
1 in	**25.4 mm**
1 milli-in (thou)	**25.4 μm**
1 μin	**0.0254 μm**

Volume, capacity

1 m^3	1.30795 yd^3
1 dm^3 (litre)	0.03531 ft^3 0.21997 imp gal 1.7605 pint 0.2642 US gal
1 cm^3 (ml)	0.06102 in^3 0.0352 fl oz
1 litre (dm^3)	0.21997 imp gal 1.7605 pint
1 ml (cm^3)	0.0352 fl oz
1 yd^3	**0.76455 m^3**
1 ft^3	**28.3168 dm^3**
1 in^3	**16.3871 cm^3**
1 imp gal	**4.54609 dm^3**
1 US gal	**3.78541 dm^3**
1 pint	**0.56826 dm^3**
1 fl oz	**28.4131 cm^3**

Area

1 km^2 (100 hectares)	247.105 acres
1 hectare (ha)	2.47105 acres **10000 m^2**
1 m^2	1.19599 yd^2
1 cm^2	0.155 in^2
1 mm^2	0.00155 in^2
1 $mile^2$	**2.58999 km^2**
1 acre (4840 yd^2)	**4046.86 m^2** **0.404686 ha**
1 yd^2	**0.836127 m^2**
1 ft^2	**0.092903 m^2**
1 in^2	**645.16 mm^2**

Mass

1 tonne	**1000 kg** 0.98420 ton 2204.62 lb
1 kg	0.01968 cwt 2.20462 lb
1 g	0.03527 oz
1 ton	**1016.05 kg** 1.01605 tonne
1 cwt	**50.8023 kg**
1 lb	**0.45359 kg**
1 oz	**28.349 g**

Density

1 kg/m^3	1.686 lb/yd^3 0.06243 lb ft^3
1 g/cm^3	62.4280 lb ft^3
1 ton/yd^3	**1328.94 kg/m^3**
1 lb/ft^3	**0.593 kg/m^3**
1 lb/in^3	**16.0185 kg/m^3**
1 lb/in^3	**27.6799 g/cm^3**

Force

1 N	0.10197 kgf 0.22481 lbf
1 kN	101.971 kgf 224.809 lbf
1 kgf (kilopond)	**9.80665 N** 2.20462 lbf
1 dyn	**10^{-5} N** 0.224809 x 10^{-6} lbf
1 lbf	**4.44822 N** 0.45359 kgf
1 tonf	**9.96402 kN** 1016.05 kgf

Power

1 hp (horse power)	**745.700 W (J/s)**
1 ft lbf/s	**1.35582 W**

Pressure, stress

1 Pa (N/m^2)	0.01 mbar 0.000145 lbf/in^2
1 kPa (kN/m^2)	0.01 kgf/cm^2 10 mbar 20.885 lbf/ft^2 0.2953 in Hg
1 kgf/cm^2	**98.0665 kPa** 14.223 lbf/in^2
1 bar	**100 kPa** 14.5038 lbf/in^2
1 mbar	**100 Pa** 2.0885 lbf/ft^2
1 atm	**101.325 kPa** 14.6959 lbf/in^2
1 mm Hg (torr)	**133.322 Pa** 0.01934 lbf/in^2
1 mm H_2O	**9.80665 Pa** 0.001422 lbf/in^2
1 lbf/in^2	**6.89476 kPa** 0.07031 kgf/cm^2 68.9476 mbar
1 lbf/ft^2	**47.8803 Pa** 0.4788 mbar
1 tonf/ft^2	**107.252 kPa** 1.094 kgf/cm^2
1 in Hg	**3.38639 kPa** 0.491 lbf/in^2
1 ft H_2O	**2.98907 kPa** 0.030 kgf/cm^2 22.3997 mm Hg

Viscosity, dynamic

1 Pa s ($N s/m^2$)	0.0208854 lbf s/ft^2
1 cP (centipoise)	2.08854 × 10^{-5} lbf s/ft^2 **0.001 Pa s**
1 lbf s/ft^2	**47.8803 Pa s**
1 lb/ft s	1488.16 cP 1.48816 kg/m s

Viscosity, kinematic

1 m^2/s	10.7639 ft^2/s
1 cSt (centistokes)	5.58001 in^2/h **1 mm^2/s** **10^{-6} m^2/s**
1 ft^2/h	**0.092903 m^2/h** 25.8064 cSt
1 in^2/s	**645.16 mm^2/s** 645.16 cSt

Energy

1 MJ	0.277778 kWh
1 J	0.737562 ft lbf
1 kgf m	**9.80665 J** 7.23301 ft lbf
1 therm	**105.506 MJ**
1 kWh	**3.6 MJ**
1 Btu (British thermal unit)	**1.05506 kJ**

METHOD ST6

MEASUREMENT OF THE *IN SITU* STRENGTH OF SOILS BY THE DYNAMIC CONE PENETROMETER (DCP)

1 SCOPE

This method describes the determination of the rate of penetration of the Dynamic Cone Penetrometer (DCP) into a natural or compacted material by virtue of the built-in sliding hammer. The penetration rate is inversely proportional to the resistance of the ground to the penetration of the cone of the DCP and may be related, *inter alia*, to the *in situ* CBR or soil density (see 5.1).

2 APPARATUS

2.1 Dynamic Cone Penetrometer as illustrated in Figure ST6/1 with the appropriate spanners, spare cones, rods, etc. (see 5.2).

2.2 A pick or hand auger.

2.3 A spade.

2.4 A measuring tape, 2 m long.

2.5 Traffic cones, warning signs and flags as required.

3 METHOD

Assemble the DCP as shown in Figure ST6/1 ensuring that the parts are fitting properly and that the hammer can slide freely. Place the tip of the cone on the site to be tested (see 5.2). Hold the DCP vertically and by means of the hammer knock the cone into the surface up to the zero mark, which is the parallel-sided shoulder portion (± 3 mm wide) just above the cone-shaped tip.

Attach the measuring rod to the DCP and zero the sliding scale.

While holding the DCP vertically, lift the hammer as far as it can go and allow it to fall freely and strike the anvil, driving the cone into the ground surface.

The penetration can be read off after each blow of the hammer or after as many blows as are practical or required for the purpose of the test (see 5.3). Record the penetration (to the nearest 1 mm) and the number of blows on Form ST6/1 or a similar form (see 5.4).

On completion of the test, the DCP is extracted by ramming the hammer against the upper stop – usually after the measuring scale has been detached to prevent damage (see 5.5).

The strength of layers deeper than the reach of the DCP can be measured by removing some or all of the overlying material with a pick and spade or using a hand auger. At the start of the test the depth below the original datum level of the material to be tested is measured, using a tape measure, and recorded.

4 CALCULATIONS

4.1 The DCP penetration depths in mm are plotted against the number of blows on Form ST6/1 and a penetration curve is drawn, the angle of which is the penetration rate, known as the "DCP number" (DN) in mm/blow. A consistent slope angle thus indicates a consistent DN for that particular zone.

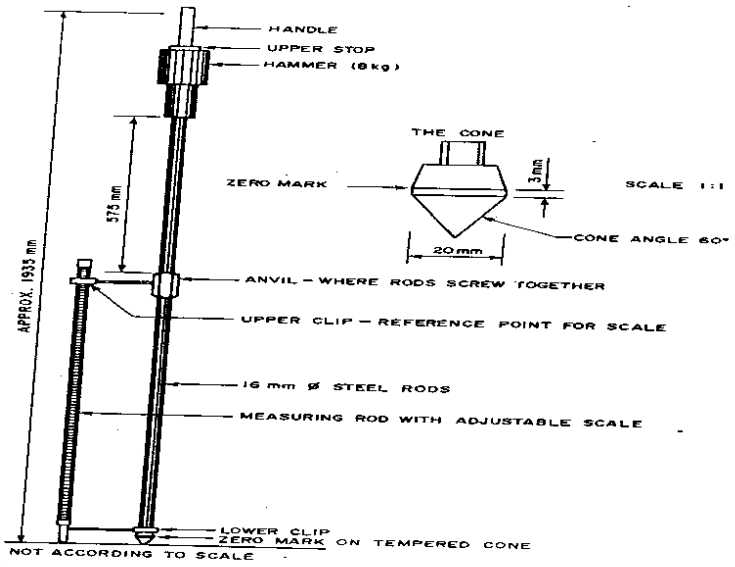
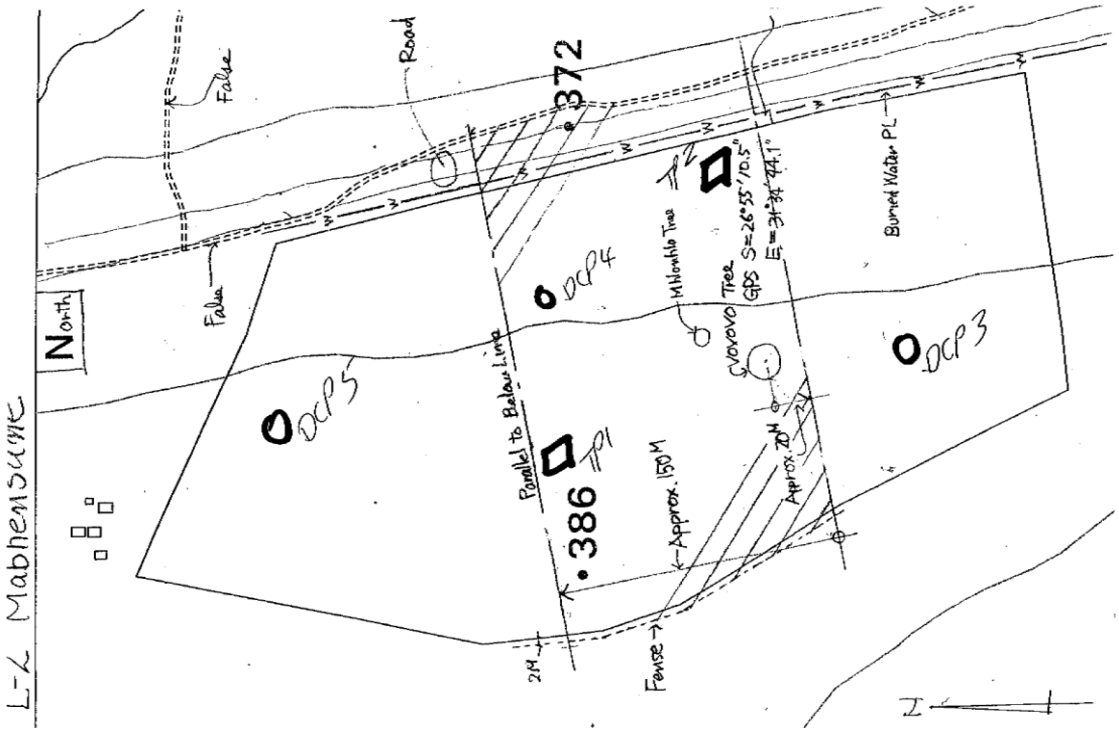


FIGURE ST6/1 THE DYNAMIC CONE PENETROMETER

各サイト測量地点

１マブヘンサネ



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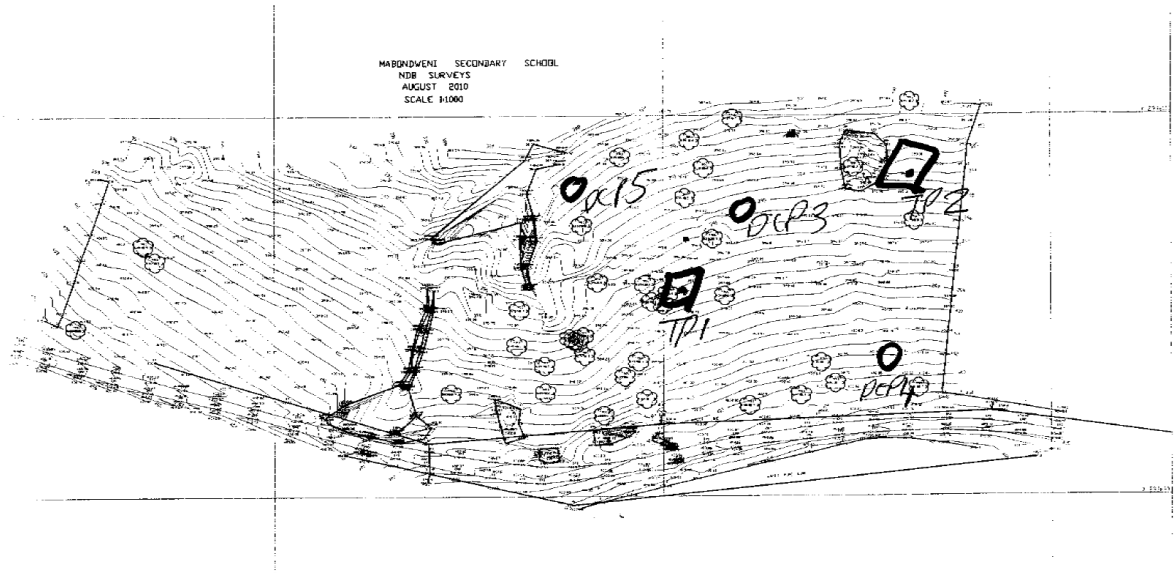

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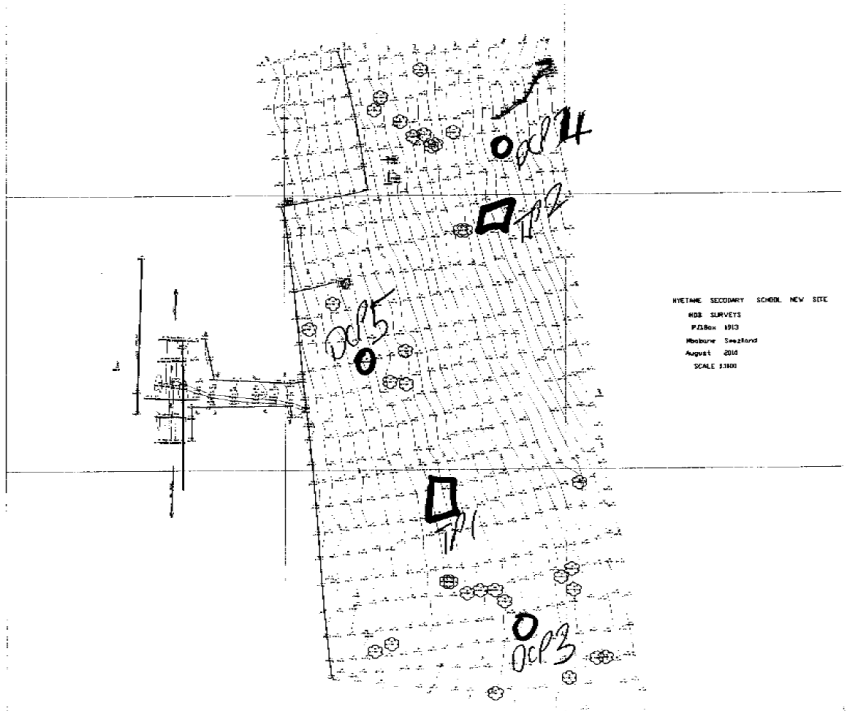

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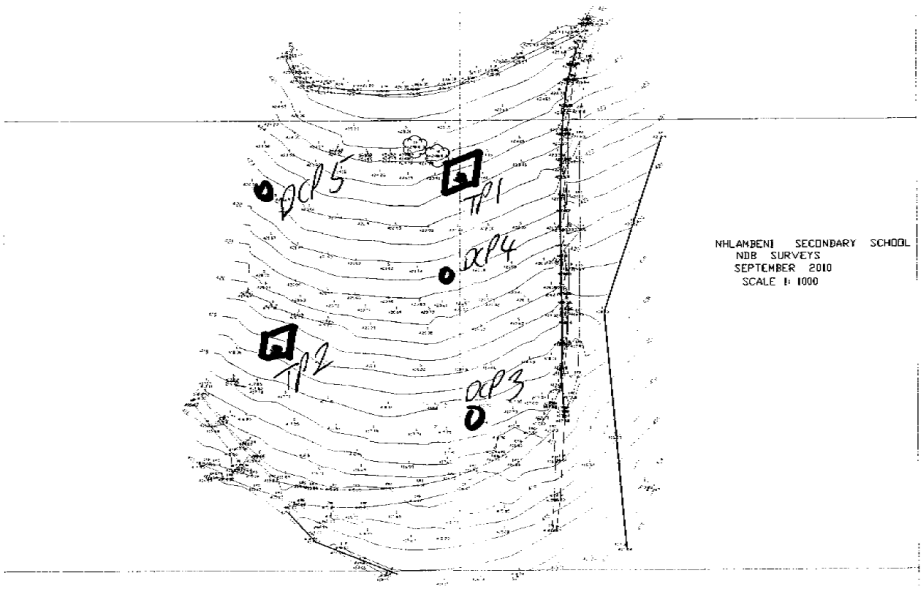

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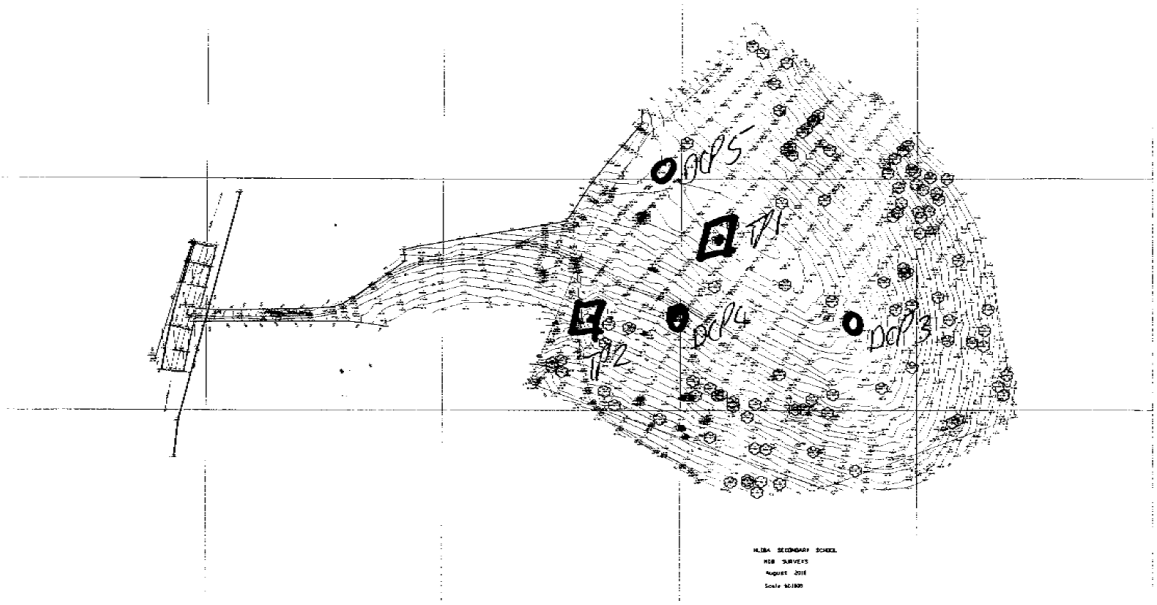

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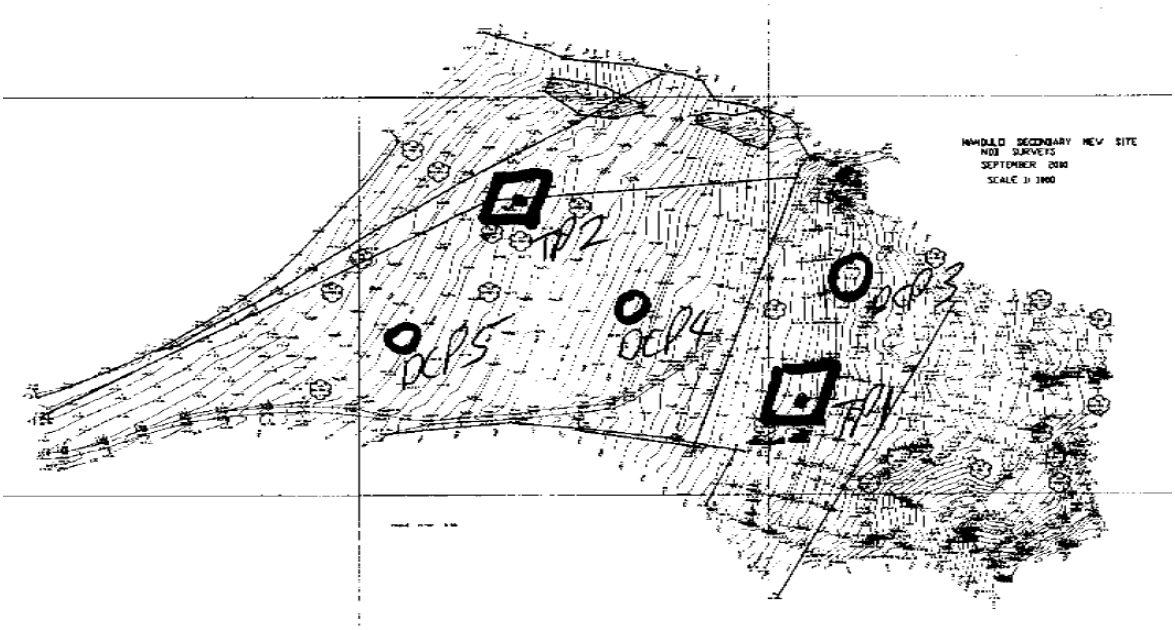

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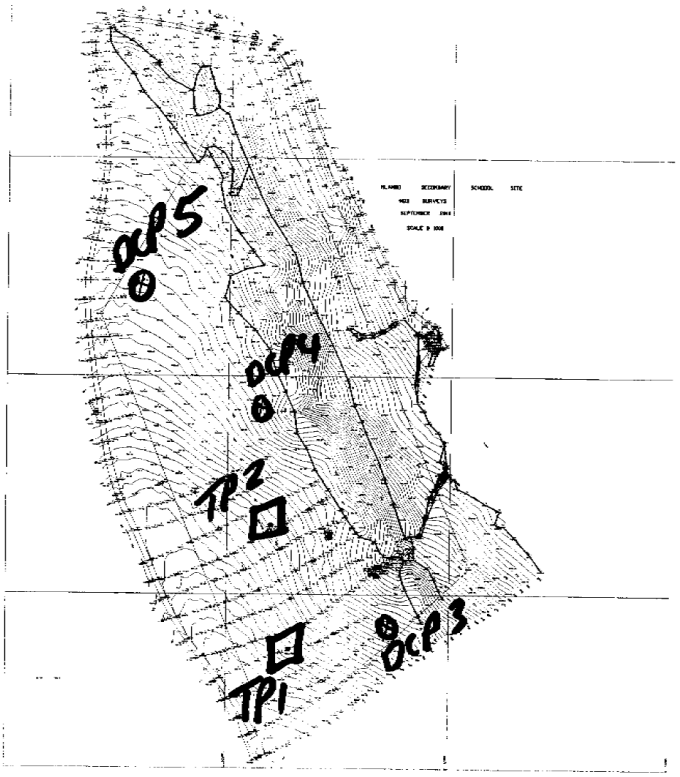

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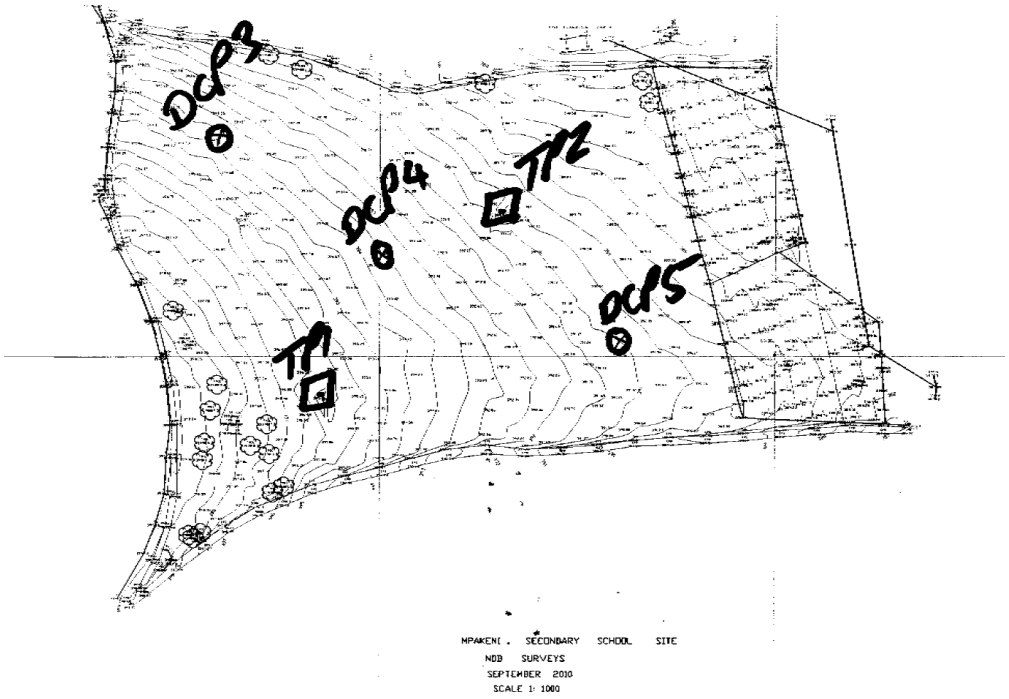

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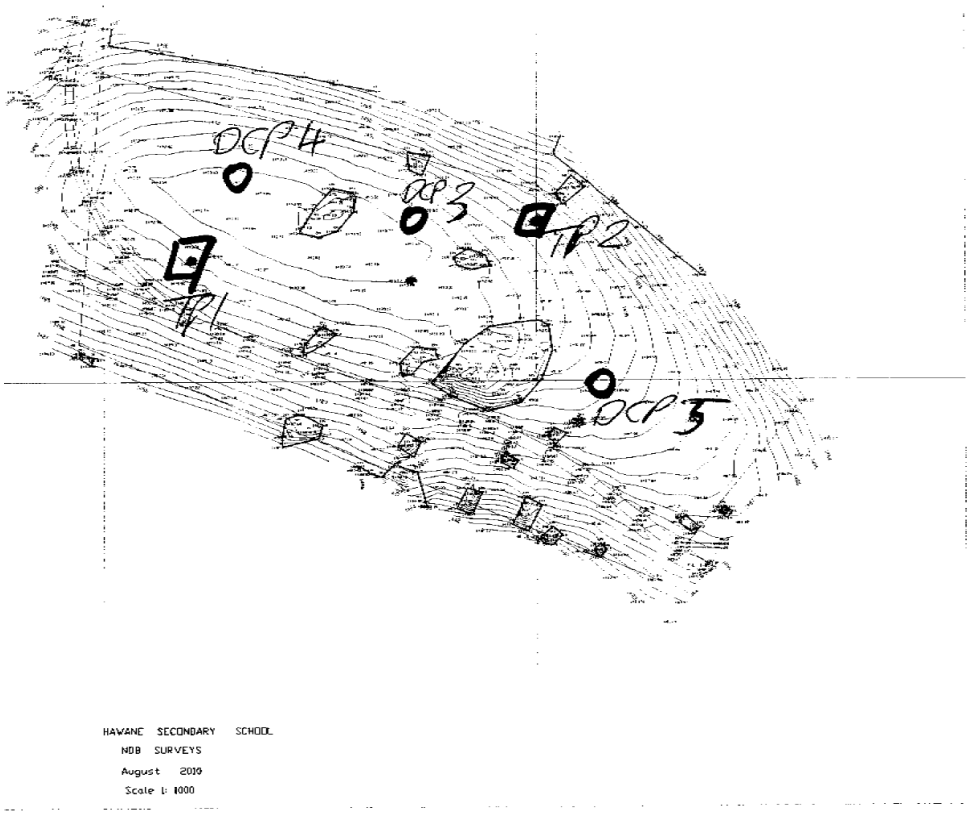

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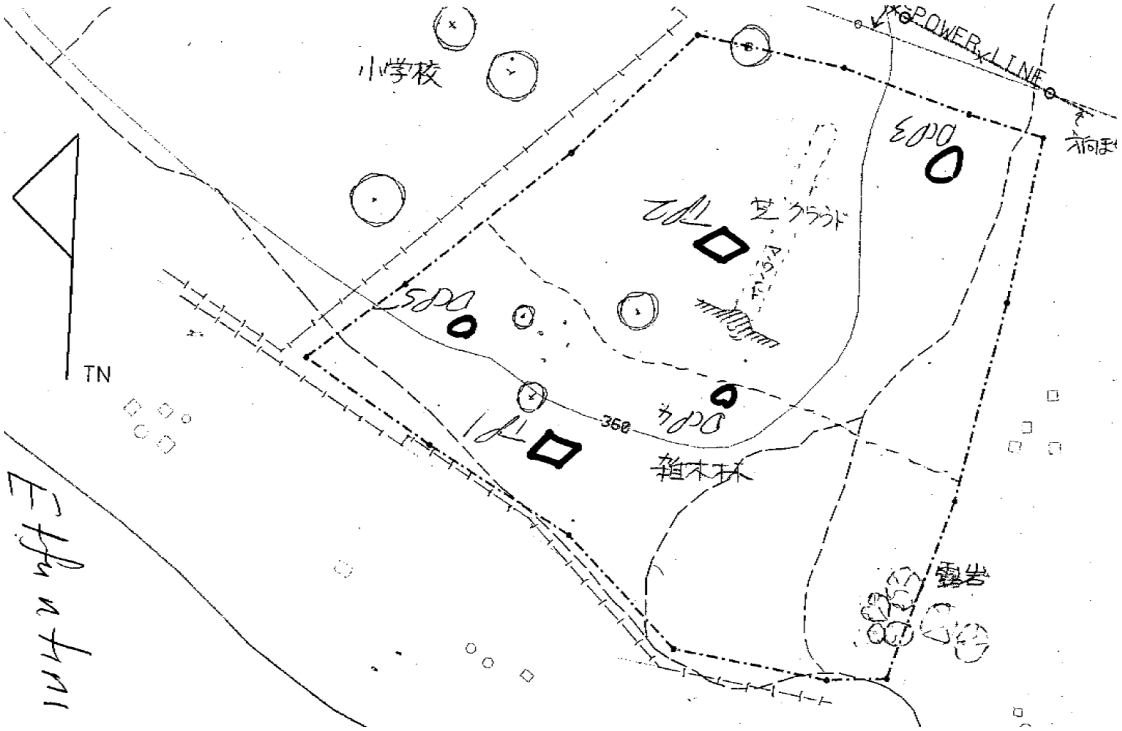

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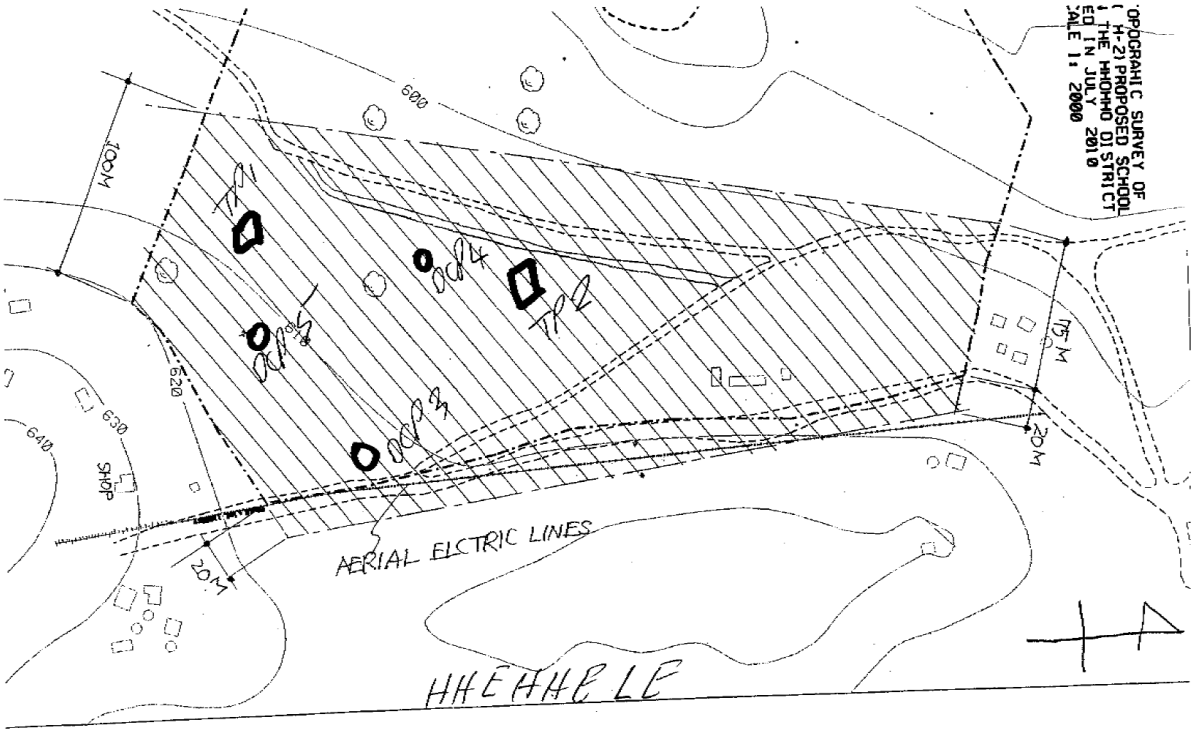

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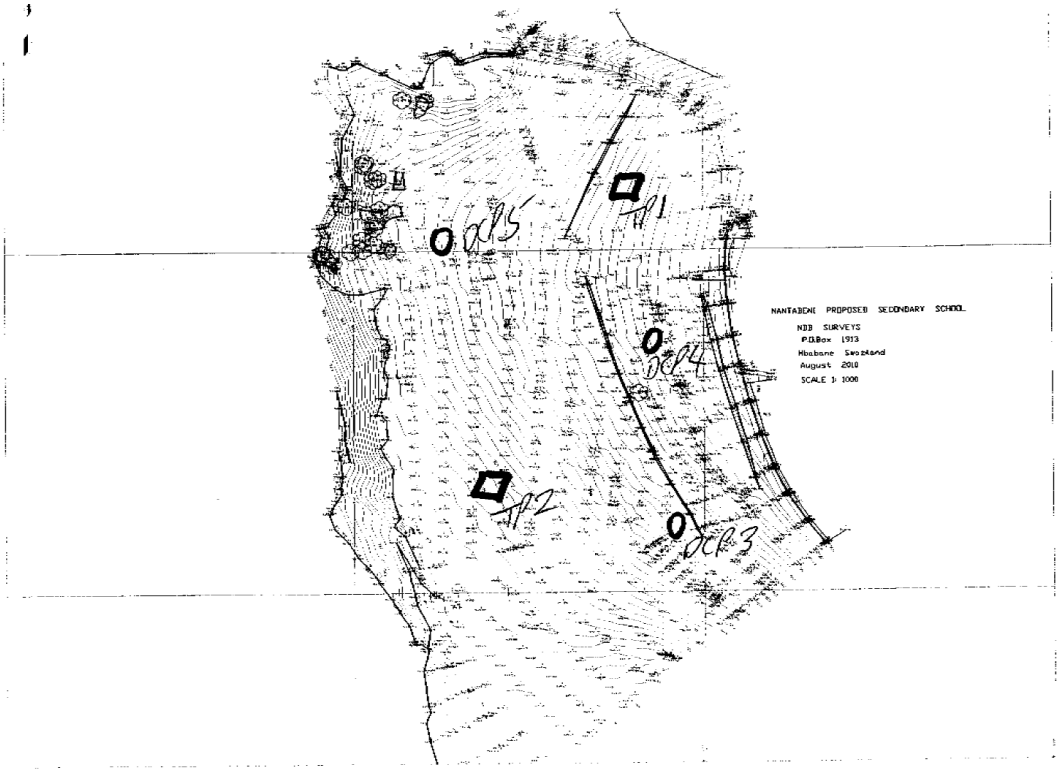


地盤調査結果

SOIL TESTING SERVICES

SWAZILAND (PTY) LTD

P.O. BOX A233
SWAZI PLAZA
MBABANE
SWAZILAND
TEL. 42227/41956

SOILS LABORATORY,
NORTH STREET,
MBABANE,
SWAZILAND,
FAX: 4042227

INDICATOR/CBR TEST REPORT

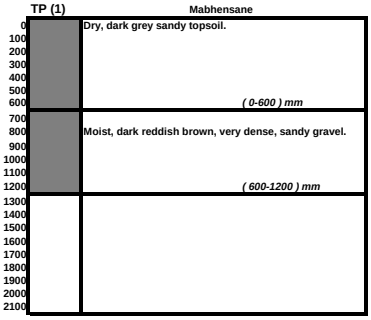
PROJECT: *SWAZILAND SECONDARY SCHOOLS* | CLIENT: *FUKUNAGA ARCHITECS* | DATE: *2010/2/9*

LABORATORY REFERENCE		Hhelehhele	Nyetane	Mpakeni	Mlambo	Nhlambeni			
SAMPLE NUMBER									
POSITION		TP (1)	TP (2)	TP (2)	TP (1)	TP (1)			
DESCRIPTION		0-1600 mm	300-900 mm	0-1500 mm	300-1400	240-1500			
SIEVE ANALYSIS: PERCENTAGE PASSING									
53.00									
37.50			100						
26.50			88						
19.00		100	83			100			
13.20		95	72	100	100	98			
4.75		88	40	100	95	85			
2.00	A	83	23	98	80	60			
0.425	B	74	17	87	54	38			
0.075	C	68	15	55	44	21			
SOIL MORTAR ANALYSIS									
COARSE SAND (2.0-0.425mm)		11	27	11	33	37			
COARSE FINE SAND (0.425-0.250mm)		2	3	13	5	12			
MEDIUM FINE SAND (0.250-00.150mm)		2	2	10	3	7			
FINE FINE SAND (0.150-0.050mm)		36	27	38	31	20			
SILT (0.050-0.005mm)		37	36	22	19	18			
CLAY (<0.005mm)		12	5	6	9	6			
SOIL CONSTANTS (ATTERBERG LIMITS)									
LIQUID LIMIT		53	65	29	45	24			
PLASTICITY INDEX		17	19	13	19	9			
LINEAR SHRINKAGE		9.9	14.7	8.8	7.8	4.0			
G.M & TRH 14 CLASSIFICATION									
G.M 300-A+B+C / 100		0.75	2.45	0.6	1.22	1.81			
TRH 14 CLASSIFICATION									
C.B.R/UCS									
100% COMPACTION		N/A	N/A	N/A	N/A	N/A			
98% COMPACTION		"	"	"	"	"			
97% COMPACTION		"	"	"	"	"			
95% COMPACTION		"	"	"	"	"			
93% COMPACTION		"	"	"	"	"			
90% COMPACTION		"	"	"	"	"			
MAXIMUM DENSITY (KGS/M3)		N/A	N/A	N/A	N/A	N/A			
OPTIMUM MOISTURE CONTENT (%)		"	"	"	"	"			
NATURAI MOISTURE CONTENT (%)		"	"	"	"	"			
COMPACTION %	SWELL %	N/A	N/A	N/A	N/A	N/A			
COMPACTION %	SWELL %	"	"	"	"	"			
COMPACTION %	SWELL %	"	"	"	"	"			

For Soil Testing Services

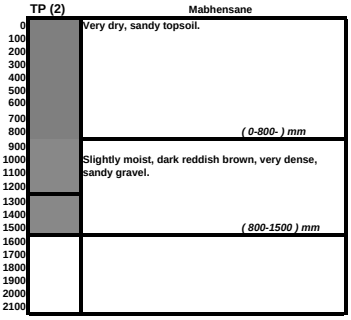
FUKUNAGA ARCHITECTS-ENGINEERS
SWAZILAND SECONDARY SCHOOLS PROJECT
SOIL PROFILING
27/08/2010

TP (1) — **Mabhensane**



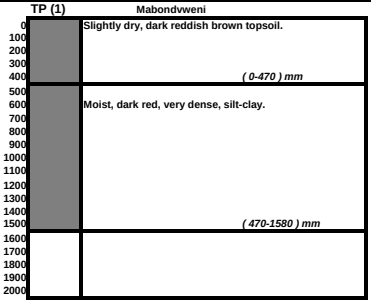
NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Mabhensane**



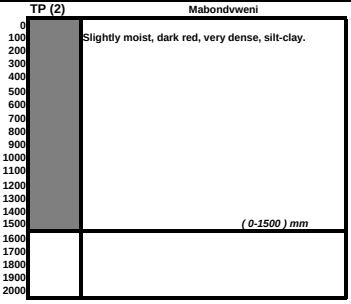
NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (1) — **Mabondvweni**



NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

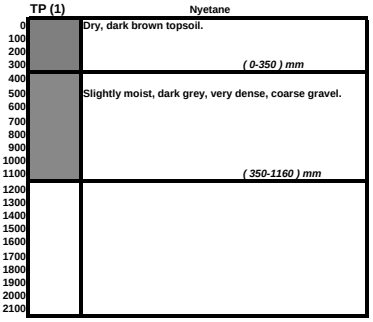
TP (2) — **Mabondvweni**



NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

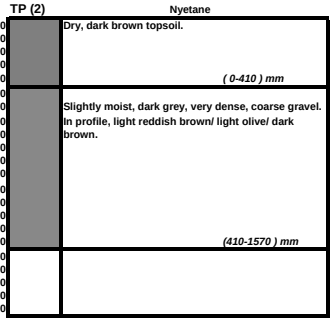
FUKUNAGA ARCHITECTS-ENGINEERS
SWAZILAND SECONDARY SCHOOLS PROJECT
SOIL PROFILING
27/08/2010

TP (1) — **Nyetane**



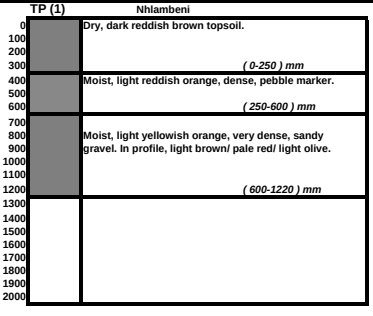
NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Nyetane**



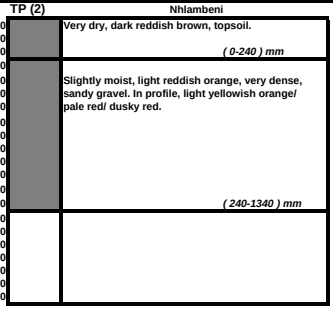
NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) A sample were taken for the laboratory testing.
(4) No water table encountered .

TP (1) — **Nhlambeni**



NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) A sample were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Nhlambeni**



NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

SOIL PROFILING

27/08/2010

TP (1) — **Mliba**

0–300	Dry, dark reddish brown, topsoil. (0-300) mm
300–1200	Slightly moist, pale red, very dense, sandy gravel. In profile, light brown/ dark grey/ light red. (300-1200) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Mliba**

0–600	Very dry, dark reddish brown, topsoil. (0-600) mm
600–1480	Moist, dark yellowish orange, very dense, sandy gravel. In profile, pale red/ dusky red/ light red/ light reddish orange. (600-1480) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (1) — **Mandulo**

0–300	Dark brown topsoil. (0-300) mm
300–400	Moist, dark reddish brown, very dense, pebble marker (300-400) mm
400–1500	Moist, dark red, very dense, intact, silt-clay, residual soil. (400-1500) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Mandulo**

0–1500	Slightly moist, dark red, dense, intact silt-clay, Slightly wet with depth. Residual soil. (0-1500) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

SOIL PROFILING

27/08/2010

TP (1) — **Mlambo**

0–300	Dry, dark grey, topsoil. (0-300) mm
300–1400	Slightly moist, dark red, very dense, sandy clay. In profile, light yellowish orange/ pale red/ light reddish brown. (300-1400) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) A sample were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Mlambo**

0–350	Very dry, dark brown topsoil. (0-350) mm
350–1270	Slightly moist, dusky red, very dense, sandy clay. In profile, light reddish brown/ pale red/ dark grey. (350-1270) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (1) — **Mpakeni**

0–280	Dry, dark reddish brown sandy topsoil. (0-280) mm
280–1500	Slightly moist, dusky red, very dense, sandy clay. (280-1500) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Mpakeni**

0–310	Dry, dark reddish brown sandy topsoil. (0-310) mm
310–1500	Moist, dusky red, very dense, sandy clay. (310-1500) mm

NOTES:
(1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) A sample were taken for the laboratory testing.
(4) No water table encountered .

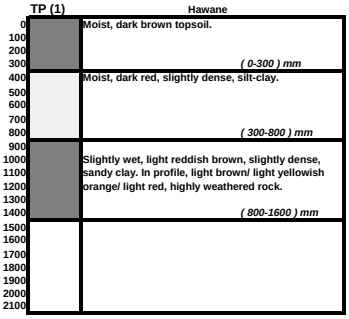
FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

SOIL PROFILING

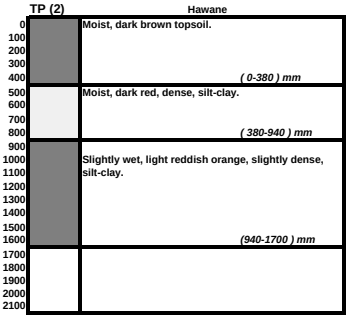
27/08/2010

TP (1) — **Hawane**



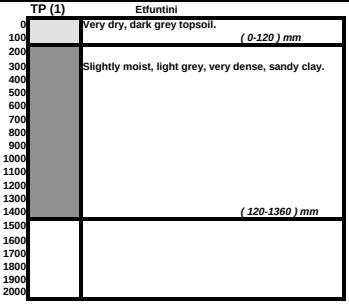
NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Hawane**



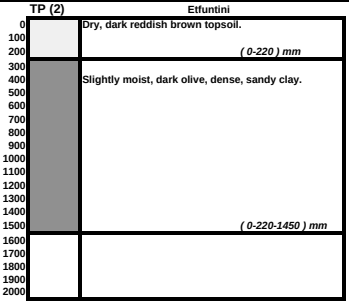
NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (1) — **Etfuntini**



NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Etfuntini**



NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

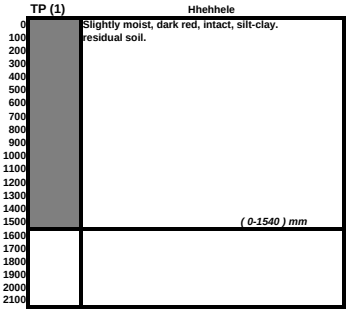
FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

SOIL PROFILING

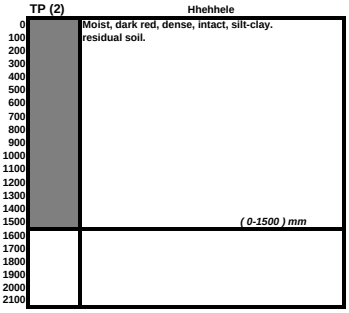
27/08/2010

TP (1) — **Hhehhele**



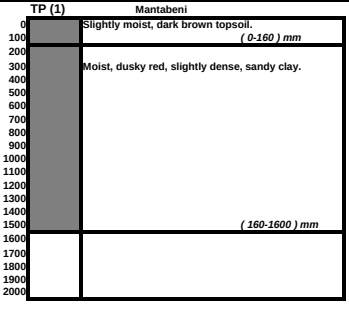
NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) A sample were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Hhehhele**



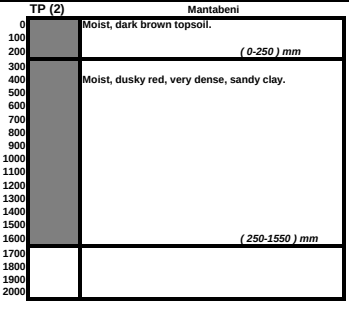
NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (1) — **Mantabeni**



NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

TP (2) — **Mantabeni**



NOTES: (1) A hand-pick was used to excavate the hole.
(2) The hole was used for the foundation investigation.
(3) There were no samples that were taken for the laboratory testing.
(4) No water table encountered .

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **NYETANE**

26/08/2010

DCP (1) TP (1) 1160 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
70	10	7	677
100	10	3	2039
105	10	1	20979
145	10	4	1402
200	10	6	927
220	10	2	3455
235	10	2	5024
245	10	1	8514
Refusal			

DCP (2) TP (2) 1570 mmBGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
95	10	890	455
135	10	800	1402
160	10	750	2585
185	10	700	2585
205	10	670	3455
255	10	640	1049
275	10	600	3455
300	10	550	2585
335	10	470	1668
360	10	430	2585
380	10	380	3455
395	10	330	5024
405	10	290	8514
425	10	220	3455
440	10	200	5024
460	10	180	3455
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
70	10	900	677
100	10	800	2039
125	20	760	6369
140	20	760	12379
200	20	760	2039
235	20	760	4111
260	20	760	6369
285	20	760	6369
325	20	760	3455
340	20	760	12379
355	20	760	12379
Refusal			

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	10	11	376
200	10	9	488
250	10	5	1049
300	10	5	1049
330	10	3	2039
360	10	3	2039
400	10	4	1402
450	10	5	1049
500	10	5	1049
530	10	3	2039
570	10	4	1402
620	10	5	1049
670	10	5	1049
710	10	4	1402
780	10	7	677
800	10	2	3455
820	10	2	3455
850	10	3	2039
870	10	2	3455
900	10	3	2039
930	10	3	2039
940	20	1	20979
Refusal			

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	10	10	426
200	10	10	426
240	10	4	1402
265	10	3	2585
280	10	2	5024
300	10	2	3455
315	15	1	8514
330	20	1	12379
350	10	2	3455
355	10	1	20979
Refusal			

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **MABONDVWENI**

26/08/2010

DCP (1) TP (1) 1580 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	20	6	927
210	20	5	1049
300	20	5	1203
370	20	4	1668
430	20	3	2039
500	20	4	1668
540	20	2	3455
570	20	2	5024
620	20	3	2585
670	20	3	2585
710	20	2	3455
Refusal			

DCP (2) TP (2) 1500 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
105	10	11	400
175	10	7	677
235	10	6	827
300	10	7	746
355	10	6	927
385	10	3	2039
415	10	3	2039
440	10	3	2585
475	10	4	1668
500	10	3	2585
515	10	2	5024
530	10	2	5024
565	10	4	1668
575	10	1	8514
590	10	2	5024
600	10	1	8514
615	10	2	5024
625	10	1	8514
635	10	1	8514
640	10	1	20979
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
60	10	6	827
110	10	5	1049
150	10	4	1402
225	10	8	619
280	10	6	927
370	10	9	488
480	10	11	376
520	5	8	569
620	5	20	173
700	5	16	231
800	5	20	173
870	5	14	275
960	5	18	198
1000	5	8	569
1100	5	20	173
1200	5	20	173
1280	5	16	231
1345	5	13	303
1420	5	15	251
1480	5	12	336
1550	10	7	677
1600	10	5	1049
1635	10	4	1668
1680	10	5	1203
1720	10	4	1402
1760	10	4	1402
1800	10	4	1402

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
125	10	13	318
220	10	10	455
360	10	14	275
535	10	18	206
700	10	17	222
840	10	14	275
1000	10	16	231
1070	10	7	677
1210	10	14	275
1320	10	11	376
1380	10	6	827
1420	10	4	1402
1450	10	3	2039

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
135	5	27	117
210	5	15	251
280	5	14	275
335	5	11	376
435	10	10	426
535	10	10	426
630	10	10	455
730	10	10	426
810	10	8	569
880	10	7	677
960	10	8	569
1150	10	19	185
1180	10	3	2039
1200	10	2	3455
1215	10	2	5024
1235	10	2	3455
Refusal			

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **MABHENSANE**

26/08/2010

DCP (1) TP (1) 1200 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
Refusal Rocks			

DCP (2) TP (2) 1500 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	10	10	426
135	10	4	1668
180	10	5	1203
185	10	1	20979
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	10	10	426
175	10	8	619
250	10	8	619
325	10	8	619
400	10	8	619
470	10	7	677
580	10	11	376
680	10	10	426
710	10	3	2039
755	10	5	1203
820	10	7	746
870	10	5	1049
900	10	3	2039
920	10	2	3455
950	10	3	2039
955	10	1	20979
Refusal			

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
270	5	54	47
400	5	26	123
460	5	12	336
500	5	8	569
560	10	6	827
630	10	7	677
670	10	4	1402
740	10	7	677
810	10	7	677
860	10	5	1049
930	10	7	677
1080	10	15	251
1130	10	5	1049
1150	10	2	3455
Refusal			

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	5	20	173
200	5	20	173
270	5	14	275
350	5	16	231
430	5	16	231
500	5	14	275
530	5	6	827
570	5	8	569
670	10	10	426
740	10	7	677
820	10	8	569
840	10	2	3455
855	10	2	5024
860	10	1	20979
Refusal			

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **MPAKENI**

26/08/2010

DCP (1) TP (1) 1500 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
130	10	13	303
315	10	19	191
420	10	11	400
480	10	6	827
620	10	14	275
735	10	12	355
820	10	9	526
970	10	15	251
1040	10	7	677
1100	10	6	827
1150	10	5	1049
1210	10	6	827
1260	10	5	1049
1320	10	6	827
1390	10	7	677
1450	10	6	827
1500	10	5	1049
1570	10	7	677
1630	10	6	827
1690	10	6	827
1730	10	4	1402
Refusal			

DCP (2) TP (2) 1500 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
200	10	20	173
300	10	10	426
400	10	10	426
500	10	10	426
600	10	10	426
700	10	10	426
800	10	10	426
870	10	7	677
945	10	8	619
970	10	3	2585
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	10	10	426
150	10	5	1049
180	10	3	2039
300	10	12	336
390	10	9	488
490	10	10	426
580	10	9	488
680	10	10	426
770	10	9	488
840	10	7	677
930	10	9	488
975	10	5	1203
980	10	1	20979
Refusal			

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	10	10	426
170	10	7	677
240	10	7	677
290	10	5	1049
440	10	15	251
600	10	16	231
670	10	7	677
750	10	8	569
825	10	8	619
900	10	8	619
965	10	7	746
980	10	2	5024
1030	10	5	1049
1080	10	5	1049
1085	10	1	20979
Refusal			

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
50	10	5	1049
100	10	5	1049
110	10	1	8514
Refusal			
1430	2	715	2

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **MLAMBO**

26/08/2010

DCP (1) TP (1) 1400 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
130	5	26	123
200	5	14	275
235	5	7	677
275	5	8	569
335	5	12	336
385	5	10	426
430	5	9	488
470	5	8	569
510	5	8	569
520	5	2	3455
560	10	4	1402
600	10	4	1402
640	10	4	1402
685	10	5	1203
730	10	5	1203
810	10	8	569
850	10	4	1402
900	10	5	1049
905	10	1	20979
Refusal			

DCP (2) TP (2) 1270 mmBGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
120	10	12	336
160	10	4	1402
230	10	7	677
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	10	10	426
130	10	3	2039
240	10	11	376
Refusal			

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
10	20	1	20979
100	20	5	1203
Refusal			

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
80	10	8	569
130	10	5	1049
160	10	3	2039
170	10	1	8514
Refusal			

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **MANDULO**

26/08/2010

DCP (1) TP (1) 1200 mmBGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
230	5	46	58
335	5	21	162
440	5	21	162
555	5	23	144
660	5	21	162
770	5	22	153
855	5	17	213
960	5	21	162
1020	5	12	336
1050	5	6	827
1080	5	6	827
1110	10	3	2039
1140	10	3	2039
1150	10	1	8514
Refusal			

DCP (2) TP (2) 1500 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
200	5	40	70
360	5	32	94
480	5	24	136
570	5	18	198
640	5	14	275
690	5	10	426
730	5	8	569
765	5	7	677
800	5	7	677
840	5	8	569
875	5	7	677
910	5	7	677
945	5	7	677
1000	10	6	927
1060	10	6	827
1115	10	6	927
1170	10	6	927
1220	10	5	1049
1265	10	5	1203
1300	10	4	1668
1350	10	5	1049
1400	10	5	1049
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
200	10	20	173
350	10	15	251
450	5	20	173
530	5	16	231
575	5	9	488
620	5	9	488
660	5	8	569
710	5	10	426
770	5	12	336
830	5	12	336
880	5	10	426
930	5	10	426
1000	5	14	275
1050	5	10	426
1140	5	18	198
1265	5	25	129
1370	5	21	162
1460	5	18	198
1550	5	18	198
1630	5	16	231
1710	5	16	231
1800	5	18	198
1880	5	16	231
1950	5	14	275
2000	2	25	129

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	10	11	376
190	10	8	569
300	10	11	376
390	10	9	488
470	10	8	569
540	10	7	677
590	10	5	1049
650	10	6	827
720	10	7	677
780	10	6	827
860	10	8	569
920	10	6	827
1000	10	8	569
1090	10	9	488
1210	10	12	336
1360	10	15	251
1510	10	15	251
1650	10	14	275
1780	10	13	303
1900	10	12	336
2000	10	10	426

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
120	10	12	336
205	10	9	526
275	10	7	677
375	10	10	426
470	10	10	455
570	10	10	426
650	10	8	569
740	10	9	488
850	10	11	376
950	10	10	426
1040	10	9	488
1210	10	17	213
1310	5	20	173
1410	5	20	173
1510	5	20	173
1590	5	16	231
1670	5	16	231
1740	5	14	275
1820	5	16	231
1880	5	12	336
1930	5	10	426
2000	4	18	206

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **NHLAMBENI**

26/08/2010

DCP (1) TP (1) 1220 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	10	11	376
170	10	6	827
250	10	8	569
385	10	14	288
550	10	17	222
800	10	25	129
1050	10	25	129
1070	10	2	3455
Refusal			

DCP (2) TP (2) 1380 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
250	10	25	129
465	10	22	157
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
120	10	12	336
285	10	17	222
430	10	15	263
570	10	14	275
615	10	5	1203
Refusal			

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
160	10	16	231
290	10	13	303
360	10	7	677
430	10	7	677
510	10	8	569
580	10	7	677
750	10	17	213
920	10	17	213
1000	10	8	569
1030	10	3	2039
1050	10	2	3455
1085	10	4	1668
Refusal			

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
80	10	8	569
130	10	5	1049
210	10	8	569
340	10	13	303
430	10	9	488
550	10	12	336
670	10	12	336
710	10	4	1402
760	10	5	1049
815	10	6	927
860	10	5	1203
900	10	4	1402
910	10	1	8514
Refusal			

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **MLIBA**

26/08/2010

DCP (1) TP (1) 1200 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
	REFUSAL ROCKS		

DCP (2) TP (2) 1480 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	10	11	376
160	10	5	1049
200	10	4	1402
245	10	5	1203
290	10	5	1203
330	10	4	1402
390	10	6	827
475	10	9	526
530	10	6	927
575	10	5	1203
610	10	4	1668
650	10	4	1402
690	10	4	1402
750	10	6	827
790	10	4	1402
820	10	3	2039
850	10	3	2039
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
140	20	7	677
270	20	7	746
340	10	7	677
375	10	4	1668
400	10	3	2585
430	10	3	2039
460	10	3	2039
490	10	3	2039
510	10	2	3455
540	10	3	2039
580	10	4	1402
590	10	1	8514
Refusal			

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
80	20	4	1402
170	20	5	1203
270	20	5	1049
380	20	6	927
450	10	7	677
550	10	10	426
700	10	15	251
810	10	11	376
850	5	8	569
890	5	8	569
930	5	8	569
1000	5	14	275
1080	5	16	231
1140	5	12	336
1220	5	16	231
1260	5	8	569
1300	5	8	569
1320	5	4	1402
1360	5	8	569
1400	5	8	569
1440	5	8	569
1460	5	4	1402
Refusal			

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
120	10	12	336
200	10	8	569
270	10	7	677
390	10	12	336
440	5	10	426
490	5	10	426
530	5	8	569
580	5	10	426
640	5	12	336
700	5	12	336
780	5	16	231
860	5	16	231
940	5	16	231
1000	5	12	336
1010	5	2	3455
1180	5	34	87
1230	5	10	426
1280	5	10	426
1330	5	10	426
1400	5	14	275
1440	5	8	569
1530	5	18	198
1570	5	8	569
1600	5	6	827
1620	5	4	1402
1660	5	8	569
1700	5	8	569
1750	10	5	1049
1790	10	4	1402
1830	10	4	1402
1870	10	4	1402
1940	10	7	677
1960	10	2	3455
2000	7	6	882

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS MANTABENI

26/08/2010

DCP (1) TP (1) 1600 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
160	2	80	28
220	2	30	102
245	2	13	318
370	5	25	129
460	5	18	198
545	5	17	213
615	5	14	275
680	5	13	303
740	5	12	336
790	5	10	426
870	5	16	231
920	5	10	426
965	5	9	488
1025	5	12	336
1080	5	11	376
1125	5	9	488
1215	10	9	488
1305	10	9	488
1400	10	10	455
1490	10	9	488
1560	10	7	677
1630	10	7	677
1690	10	6	827
1750	10	6	827
1800	10	5	1049
1860	10	6	827
1920	10	6	827
1980	10	6	827
2000	10	2	3455

DCP (2) TP (2) 1550 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
180	2	90	24
240	2	30	102
300	2	30	102
360	2	30	102
380	2	10	426
415	2	18	206
450	2	18	206
525	2	38	76
580	5	11	376
630	5	10	426
680	5	10	426
735	5	11	376
780	5	9	488
865	10	9	526
950	10	9	526
1030	10	8	569
Refusal			

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
200	5	40	70
340	5	28	112
560	4	55	46
680	2	60	41
755	2	38	76
815	2	30	102
860	2	23	148
910	2	25	129
940	2	15	251
1040	5	20	173
1140	5	20	173
1210	5	14	275
1260	5	10	426
1310	5	10	426
1360	5	10	426
1400	5	8	569
1435	5	7	677
1480	5	9	488
1520	5	8	569
1560	5	8	569
1600	5	8	569
1635	5	7	677
1675	5	8	569
1705	5	6	827
1740	5	7	677
1775	5	7	677
1850	10	8	619
1905	10	6	927
1955	10	5	1049
2000	10	5	1203

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	5	22	153
310	5	40	70
350	5	8	569
430	2	40	70
510	2	40	70
580	2	35	83
630	2	25	129
670	2	20	173
760	5	18	198
850	5	18	198
910	5	12	336
975	5	13	303
1020	5	9	488
1070	5	10	426
1110	5	8	569
1140	5	6	827
1220	10	8	569
1290	10	7	677
1345	10	6	927
1410	10	7	746
1470	10	6	827
1535	10	7	746
1600	10	7	746
1665	10	7	746
1725	10	6	827
1800	10	8	619
1865	10	7	746
1925	10	6	827
2000	10	8	619

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
190	5	38	75
400	5	42	66
610	5	42	66
745	5	27	117
825	5	16	231
865	5	8	569
1000	10	14	288
1110	10	11	376
1190	10	8	569
1265	10	8	619
1340	10	8	619
Refusal			

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS HAWANE

26/08/2010

DCP (1) TP (1) 1600 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
360	5	72	33
650	5	58	43
910	5	52	50
1120	5	42	66
1320	5	40	70
1380	2	30	102
1440	2	30	102
1500	2	30	102
1570	2	35	83
1610	2	20	173
1655	2	23	148
1710	2	28	114
1765	2	28	114
1810	2	23	148
1870	2	30	102
1900	2	15	251
1940	2	20	173
2000	2	30	102

DCP (2) TP (2) 1700 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
200	2	100	21
260	2	30	102
370	2	55	46
430	2	30	102
500	2	35	83
570	2	35	83
630	2	30	102
700	2	35	83
760	2	30	102
830	2	35	83
930	5	20	173
1060	5	26	123
1160	5	20	173
1260	5	20	173
1360	5	20	173
1460	5	20	173
1570	5	22	153
1700	2	65	37
1800	5	20	173
1900	5	20	173
2000	5	20	173

DCP (3) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
80	5	16	231
180	5	20	173
265	5	17	213
300	5	7	677
340	5	8	569
410	5	14	275
550	5	28	112
630	2	40	70
730	2	50	52
810	2	40	70
910	2	50	52
980	2	35	83
1070	2	45	60
1170	2	50	52
1260	2	45	60
1310	2	25	129
1360	2	25	129
1410	2	25	129
1470	2	30	102
1490	2	10	426
1560	2	35	83
1620	2	30	102
1670	2	25	129
1730	2	30	102
1790	2	30	102
1850	2	30	102
1900	2	25	129
1950	2	25	129
2000	2	25	129

DCP (4) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	5	22	153
190	5	16	231
250	5	12	336
300	5	10	426
340	5	8	569
410	5	14	275
510	5	20	173
630	5	24	136
780	5	30	102
900	5	24	136
1000	5	20	173
1080	5	16	231
1170	5	18	198
1260	5	18	198
1320	5	12	336
1400	5	16	231
1500	5	20	173
1570	5	14	275
1670	5	20	173
1820	5	30	102
1930	5	22	153
2000	5	14	275

DCP (5) NGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
110	5	22	153
180	5	14	275
240	5	12	336
310	5	14	275
400	5	18	198
500	5	20	173
600	5	20	173
760	5	32	94
870	2	55	46
950	2	40	70
1020	2	35	83
1110	2	45	60
1150	2	20	173
1200	2	25	129
1250	2	25	129
1300	2	25	129
1350	2	25	129
1385	2	18	206
1430	2	23	148
1470	2	20	173
1510	2	20	173
1560	2	25	129
1600	2	20	173
1650	2	25	129
1680	2	15	251
1730	2	25	129
1770	2	20	173
1810	2	20	173
1860	2	25	129
1940	2	40	70
1960	2	10	426
2000	2	20	173

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **HHELEHHELE**

26/08/2010

DCP (1) TP (1) — 1540 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
200	2	100	21
365	2	83	27
415	2	25	129
540	2	63	39
660	2	60	41
770	2	55	46
850	2	40	70
955	2	53	49
1050	2	48	56
1155	2	53	49
1230	2	38	76
1320	2	45	60
1420	2	50	52
1510	2	45	60
1580	2	35	83
1650	2	35	83
1700	2	25	129
1760	2	30	102
1810	2	25	129
1850	2	20	173
1900	2	25	129
1950	2	25	129
2000	2	25	129

DCP (2) TP (2) — 1500 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
380	2	190	9
600	2	110	19
685	2	43	65
800	2	58	44
890	2	45	60
1000	2	55	46
1085	2	43	65
1165	2	40	70
1225	2	30	102
1325	2	50	52
1410	2	43	65
1470	2	30	102
1530	2	30	102
1600	2	35	83
1665	2	33	92
1735	2	35	83
1800	2	33	92
1850	2	25	129
1900	2	25	129
1950	2	25	129
2000	2	25	129

DCP (3) — **NGL**

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
160	5	32	94
250	5	18	198
330	5	16	231
440	5	22	153
540	5	20	173
675	5	27	117
835	5	32	94
900	2	33	92
930	2	15	251
980	2	25	129
1030	2	25	129
1070	2	20	173
1110	2	20	173
1150	2	20	173
1190	2	20	173
1215	5	5	1049
1250	5	7	677
1350	2	50	52
1400	2	25	129
1430	2	15	251
1470	2	20	173
1530	2	30	102
1535	2	3	2585
1555	5	4	1402
1610	5	11	376
1655	5	9	488
1700	5	9	488
1720	5	4	1402
1755	5	7	677
1800	5	9	488
1840	5	8	569
1920	5	16	231
2000	4	20	173

DCP (4) — **NGL**

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
95	5	17	213
125	5	8	569
160	5	7	677
200	5	8	569
250	5	10	426
310	5	12	336
385	5	15	251
460	5	15	251
540	5	16	231
620	5	16	231
720	5	20	173
820	5	20	173
910	5	18	198
1010	5	20	173
1130	5	24	136
1230	5	20	173
1350	5	24	136
1440	5	18	198
1520	5	16	231
1630	5	22	153
1730	5	20	173
1810	5	16	231
1900	5	18	198
2000	5	20	173

DCP (5) — **NGL**

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
220	5	44	62
310	5	18	198
420	5	22	153
530	5	22	153
625	2	48	56
700	2	38	76
765	2	33	92
820	2	28	114
865	2	23	148
910	2	23	148
960	2	25	129
1000	2	20	173
1050	5	10	426
1155	5	21	162
1280	5	25	129
1405	5	25	129
1460	5	11	376
1690	5	46	58
1790	5	20	173
1900	5	22	153
2000	5	20	173

FUKUNAGA ARCHITECTS-ENGINEERS

SWAZILAND SECONDARY SCHOOLS PROJECT

DCP TEST RESULTS — **ETFUNTINI**

26/08/2010

DCP (1) TP (1) — 1360 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
145	10	15	263
220	10	8	619
Refusal			

DCP (2) TP (2) — 1450 mm BGL

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
130	10	13	303
255	10	13	318
330	10	8	619
400	10	7	677
470	10	7	677
570	10	10	426
640	10	7	677
760	10	12	336
860	10	10	426
950	10	9	488
1020	10	7	677
1060	10	4	1402
1105	10	5	1203
1135	10	3	2039
1165	10	3	2039
1180	10	2	5024
1200	10	2	3455
1220	10	2	3455
Refusal			

DCP (3) — **NGL**

Depth (mm)	No. Blows	mm/blows	kPa
0	0		
180	10	18	198
290	10	11	376
470	5	36	80
580	2	55	46
730	2	75	31
860	2	65	37
970	2	55	46
1035	2	33	92
1105	5	14	275
1160	5	11	376
1200	5	8	569
1260	5	12	336
1300	5	8	569
1335	5	7	677
1370	5	7	677
1410	5	8	569
1455	5	9	488
1465	5	2	3455
Refusal			

DCP (4) — **NGL**

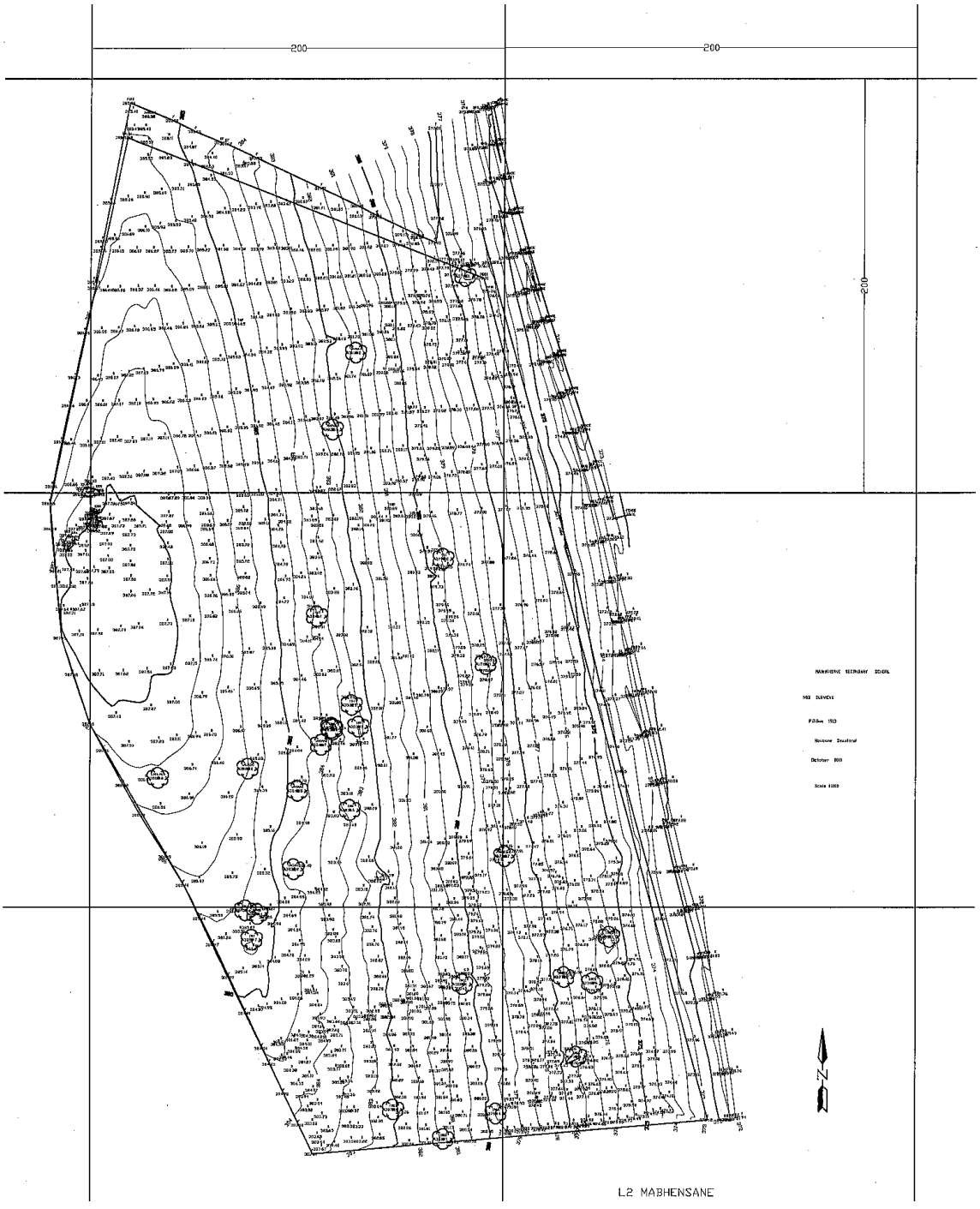
Depth (mm)	No. Blows	mm/blows	kPa
0	0		
20	20	1	8514
30	20	1	20979
Refusal			

DCP (5) — **NGL**

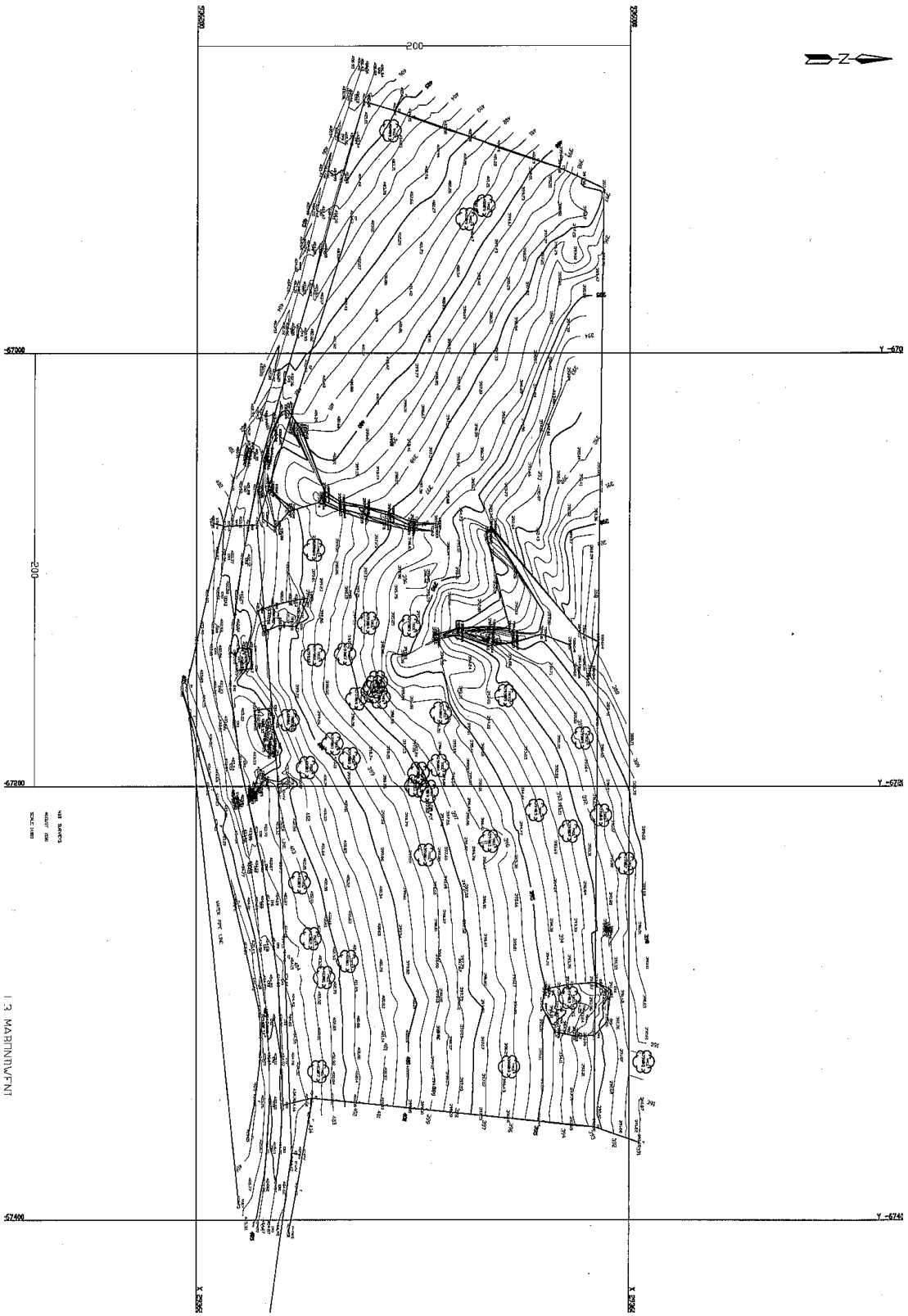
Depth (mm)	No. Blows	mm/blows	kPa
0	0		
100	20	5	1049
130	20	2	5024
140	20	1	20979
Refusal			

資料７. 地形測量

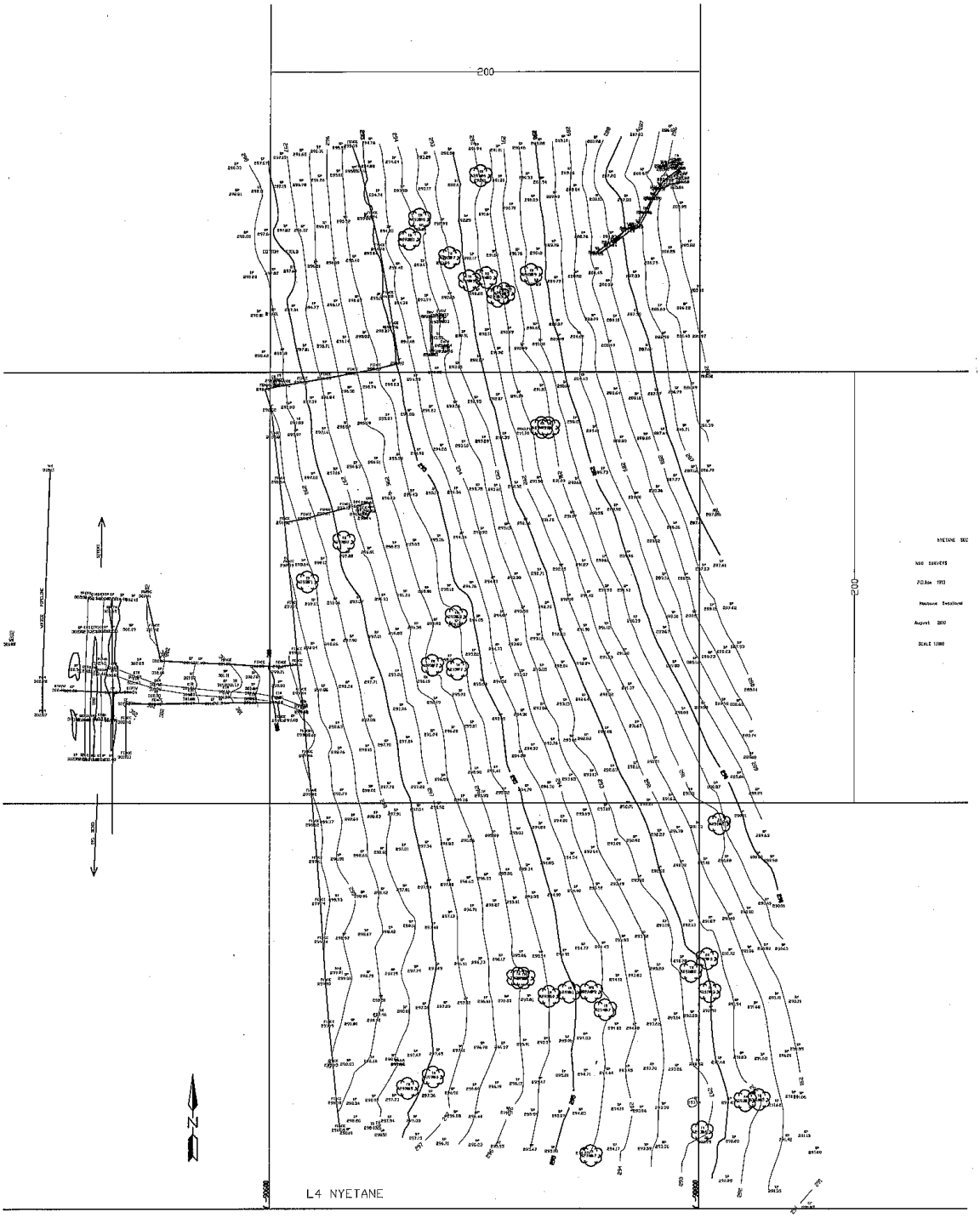
１マブヘンサネ



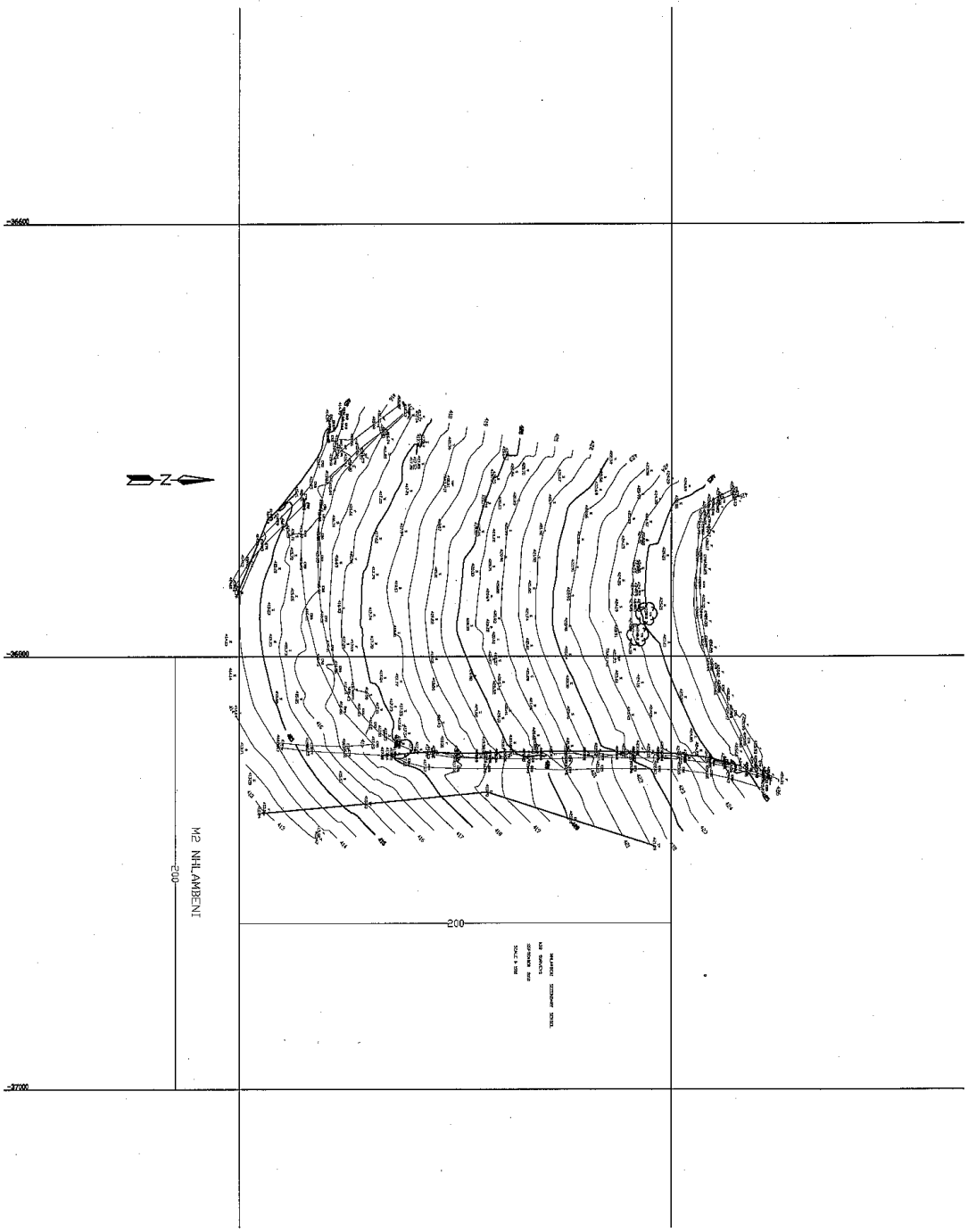
２マボンドウェニ



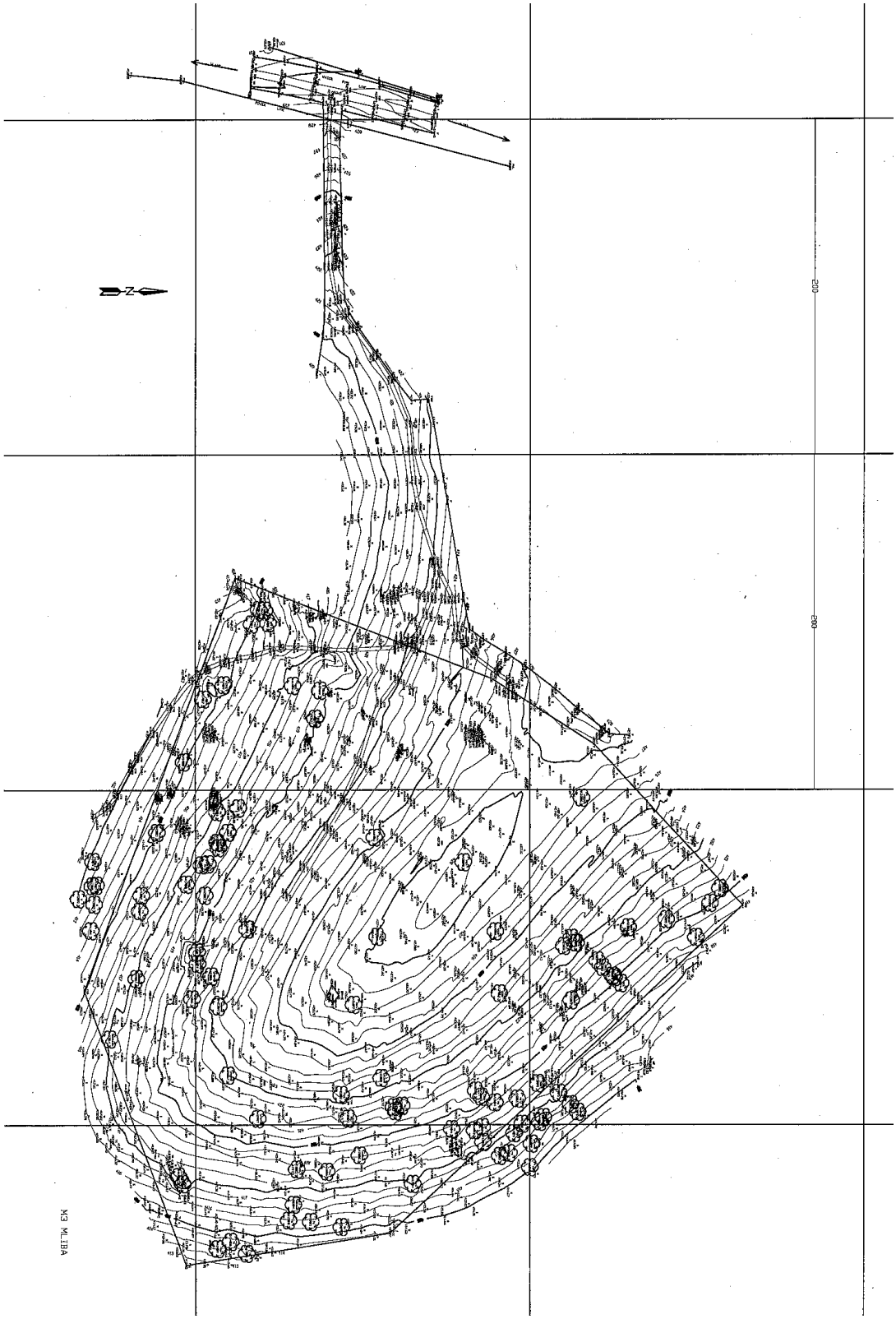
３ニェタネ



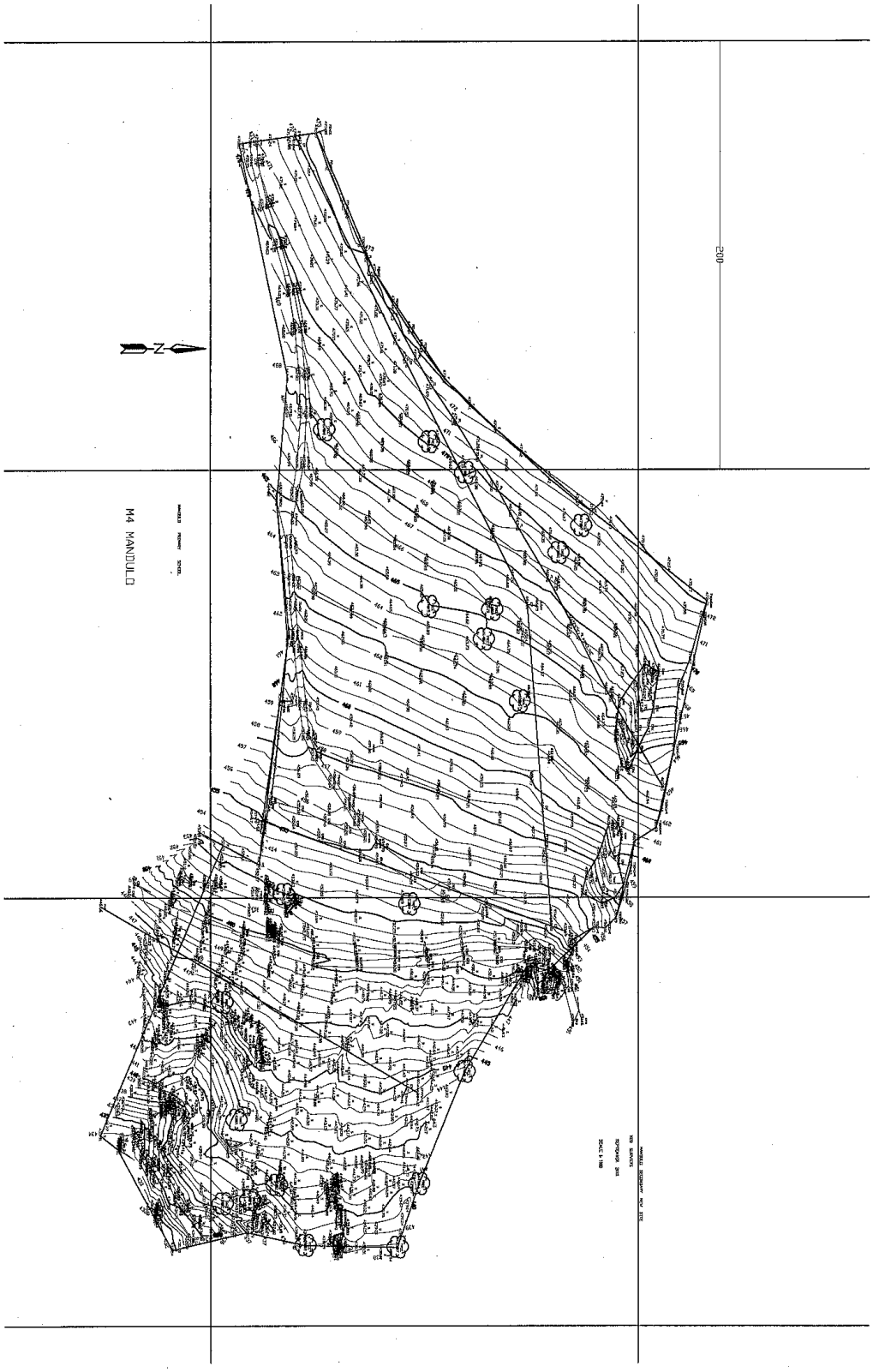
４ヌシャンベニ



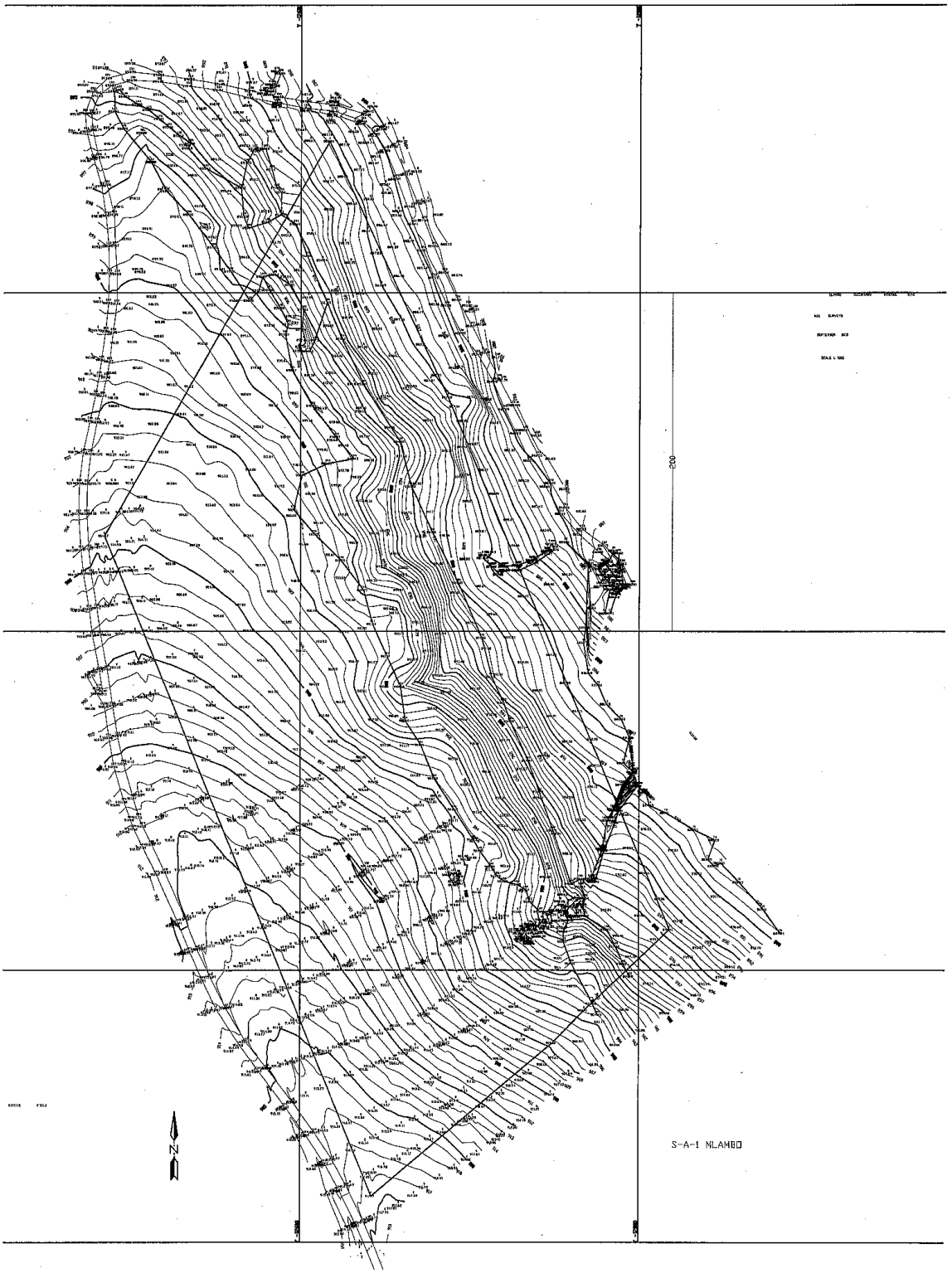
５ムリバ



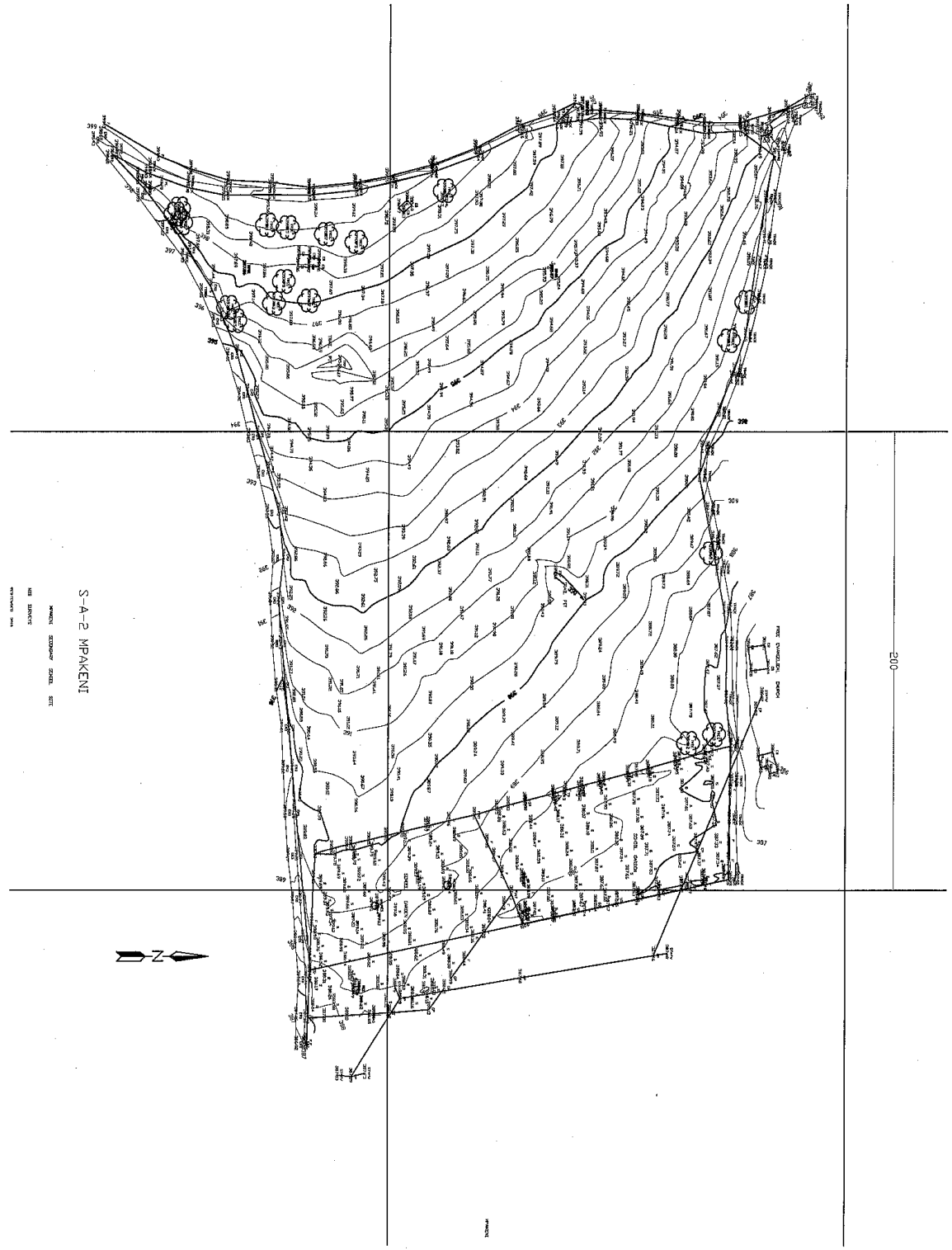
６マンドゥロ



７ムランボ



８ムパケーニ



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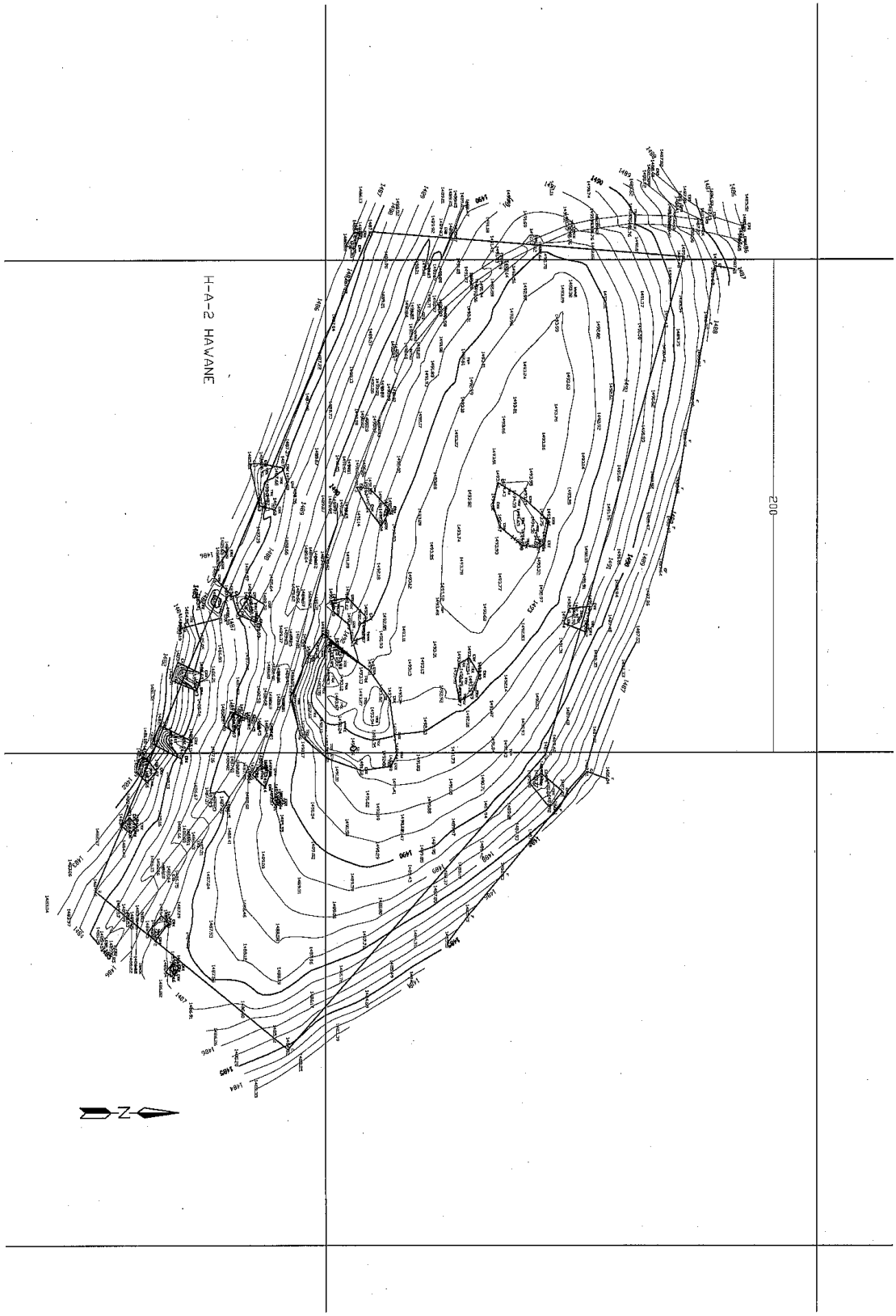
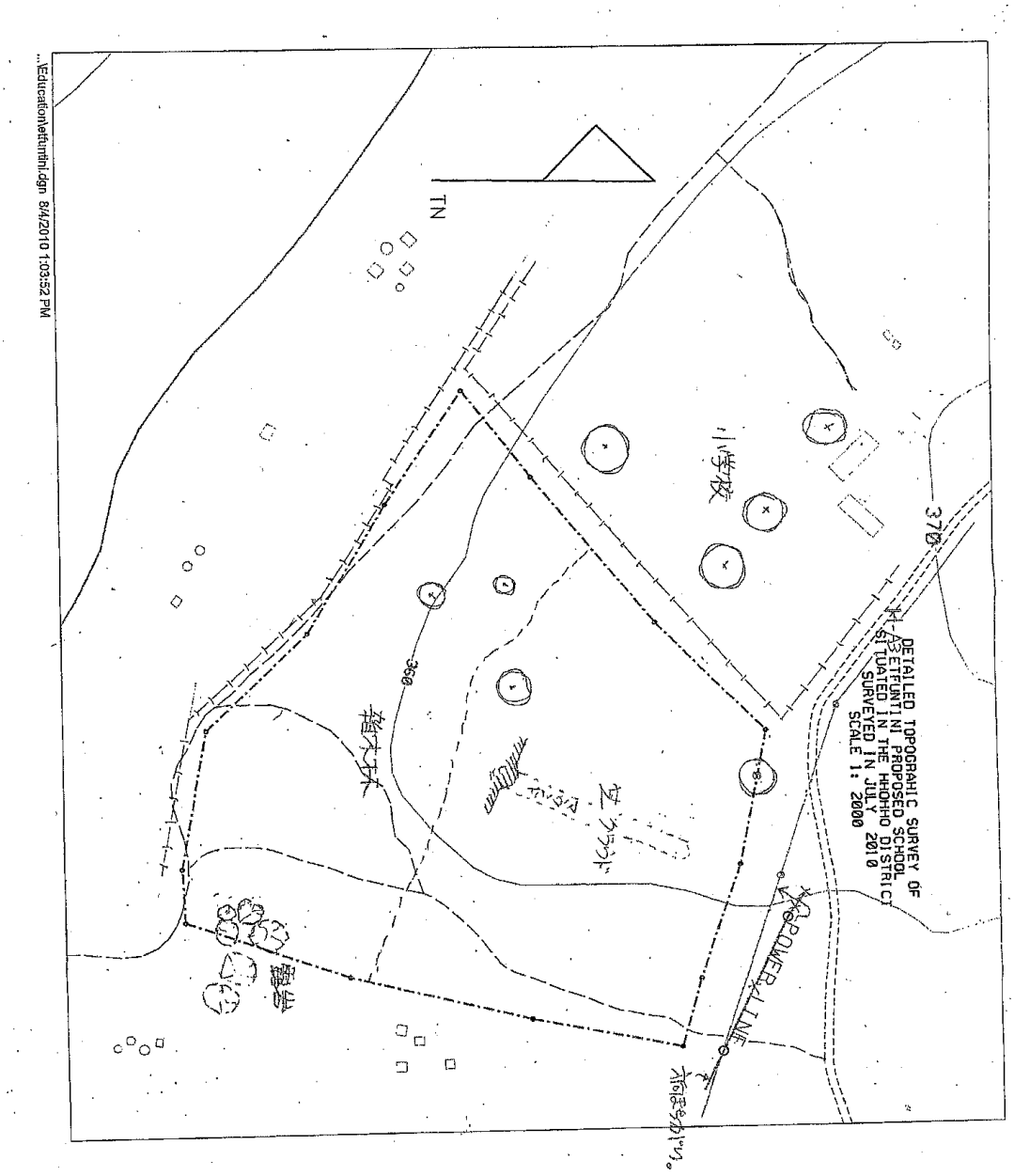


１０エトフンティニ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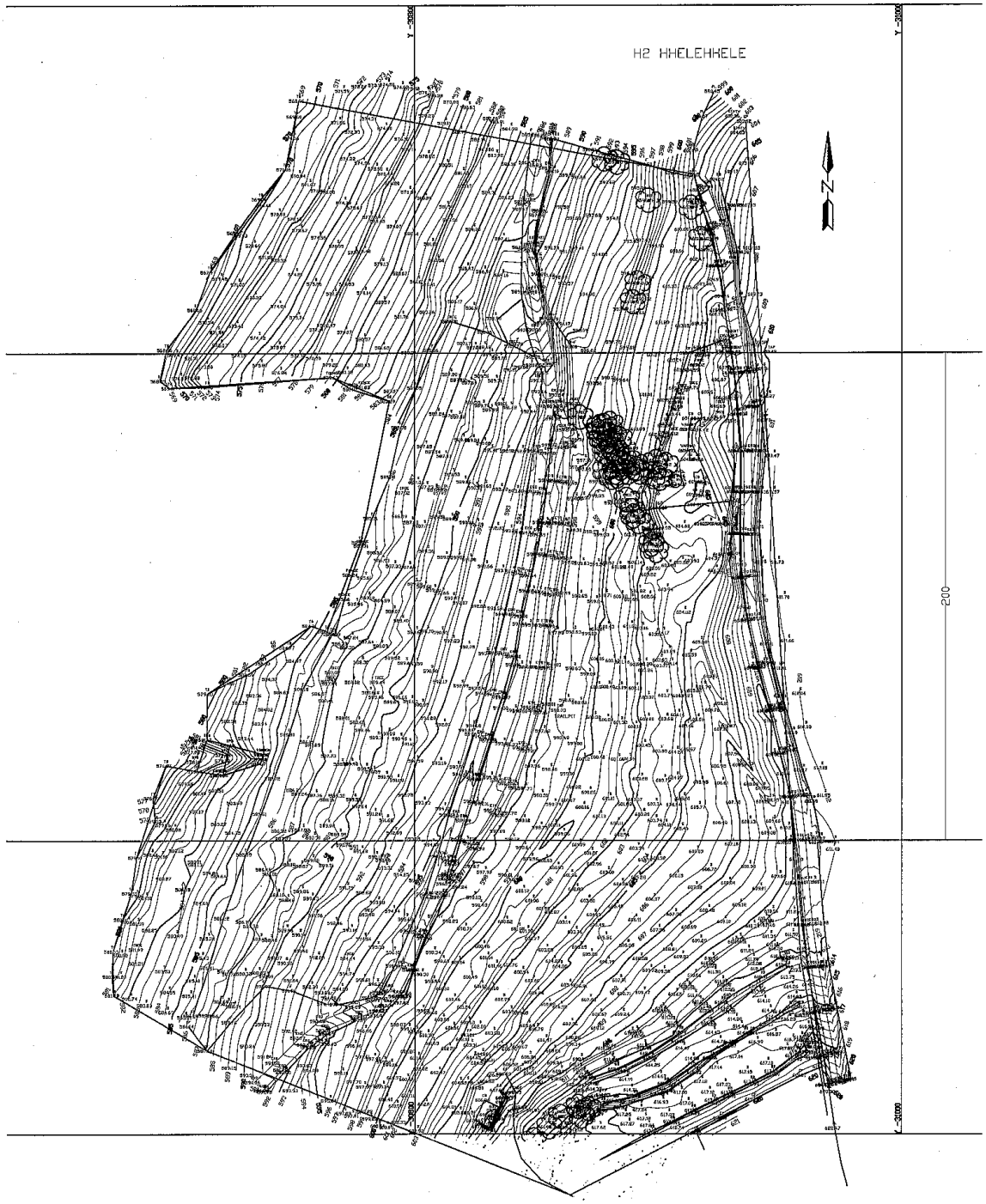
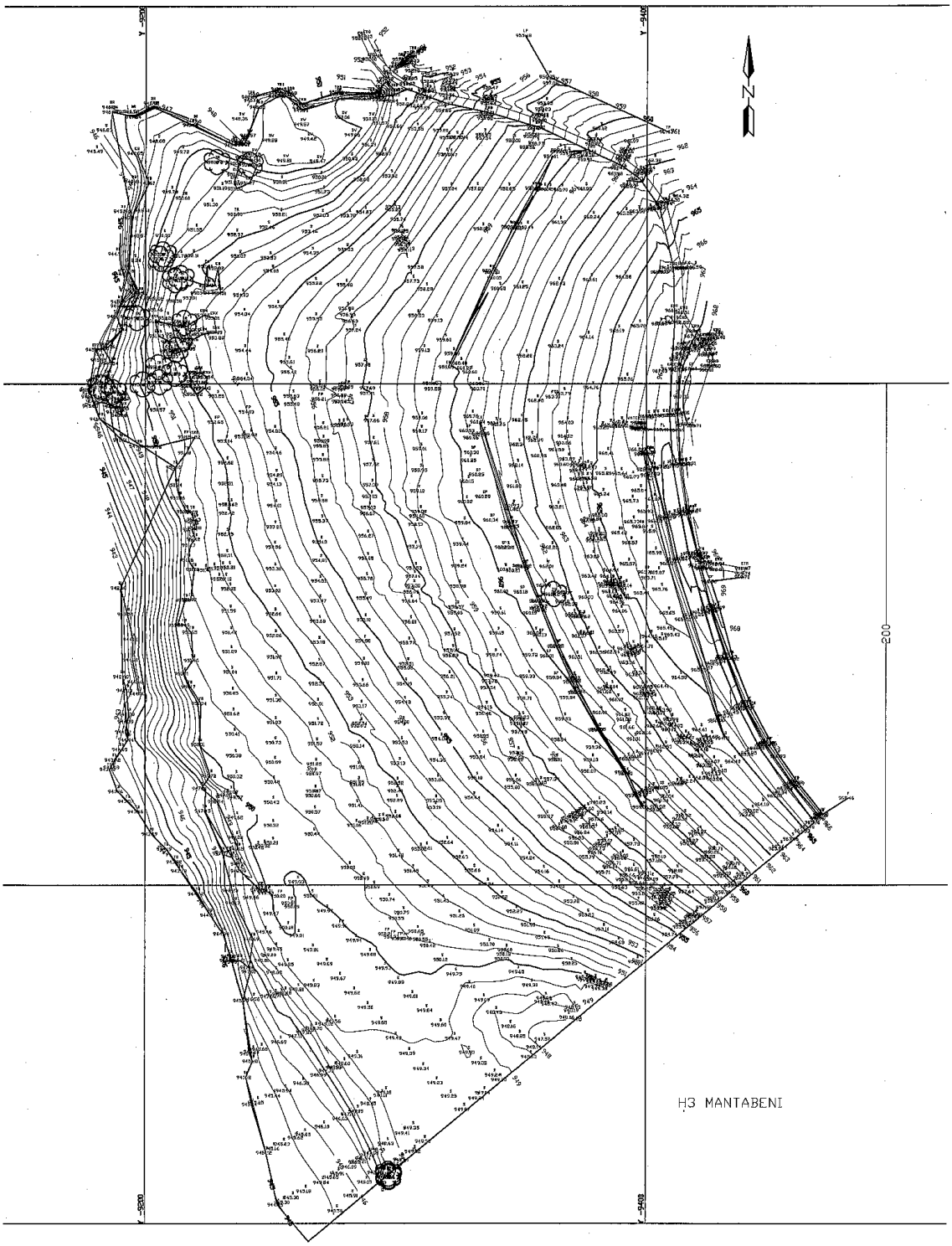
TN
DETAILED TOPOGRAHIC SURVEY OF
ETFUNTINI PROPOSED SCHOOL
SITUATED IN THE HHOHHO DISTRICT
SURVEYED IN JULY 2010
SCALE 1: 2000
POWER LINE
370
360

１１ヘレヘレ



１２マンタベニ



資料 8.　調査対象サイト集計結果表（ 2010 年調査時）

対象サイト名		1 マブヘンサネ			2 マボンドゥウエニ			3 ニェタネ			4 ヌシャンベニ			5 ムリバ			6 マンドゥロ		
近隣中等学校（生徒数: 人）		Mpompotha HS			Esigcaweni HS			Moyeni HS			Masundvwini HS			Khuphuka HS			Mkondvo SS		
		学年	生徒数	学級数	学年	生徒数	学級数	学年	生徒数	学級数	学年	生徒数	学級数	学年	生徒数	学級数	学年	生徒数	学級数
		F1	138	3	F1	52	2	F1	128	2	F1	148	3	F1	100	2	F1	99	2
		F2	129	3	F2	78	2	F2	112	2	F2	140	3	F2	118	3	F2	81	2
		F3	101	3	F3	58	2	F3	79	2	F3	111	3	F3	73	2	F3	57	2
		F4	91	2	F4	50	2	F4	78	2	F4	160	3	F4	50	1	F4	―	―
		F5	55	2	F5	25	1	F5	54	1	F5	91	3	F5	37	1	F5	―	―
		計	514	13	計	263	9	計	451	9	計	650	15	計	378	9	計	237	6
		Maloy HS			Dvukodvweni HS(新設校)			Lasi Memorial HS			Mthonjeni HS						Nkwene HS		
		学年	生徒数	学級数	学年	生徒数	学級数	学年	生徒数	学級数	学年	生徒数	学級数				学年	生徒数	学級数
		F1	90	2	F1	46	1	F1	121	2	F1	102	2				F1	138	3
		F2	90	2	F2	26	1	F2	123	2	F2	106	2				F2	135	3
		F3	57	2	F3	17	1	F3	79	2	F3	79	2				F3	87	2
		F4	46	1	F4	8	1	F4	46	1	F4	103	2				F4	69	1
		F5	17	1	F5	―	―	F5	42	1	F5	60	2				F5	39	1
		計	300	8	計	97	4	計	411	8	計	450	10				計	468	10
		Nkonja HS						Mpolonjeni HS(338)											
		学年	生徒数	学級数				学年	生徒数	学級数									
		F1	124	2				F1	83	2									
		F2	98	2				F2	101	2									
		F3	89	2				F3	64	2									
		F4	47	1				F4	63	2									
		F5	42	1				F5	27	1									
		計	400	8				計	338	9									
通学圏内の既存小学校から発生する就学需要（新設中等学校に影響する推定入学生徒数）		Mabhensane PS			Mabondvweni PS			St. Augutine PS			DamasekoPS			Mliba Nazarene PS			Mandulo Com. PS		
		就学需要（人）		18	就学需要（人）		34	就学需要（人）		30	就学需要（人）		17	就学需要（人）		60	就学需要（人）		39
		Makhwekhweti PS			Mampempeni PS			Khalakahle PS			Nhlanmbeni Naz.						Baleni PS		
		就学需要（人）		27	就学需要（人）		15	就学需要（人）		16	就学需要（人）		28				就学需要（人）		19
											Sidvokodvo R-Way PS						Zamokuhle PS		計13人
											就学需要（人）		16				就学需要（人）		
																	Ebuhleni PS		
																	就学需要（人）		
																	Nyanyali PS		
																	就学需要（人）		
想定される学級規模（人）	F1	45			49			46			61			60			71		
	F2	42			46			43			57			56			67		
	F3	29			31			29			39			38			45		
	F4	32			34			33			43			42			50		
	F5	20			22			20			28			27			32		
合計		168			182			171			228			223			265		

対象サイト名		7 ムランボ			8 ムパケーニ	9 ハワネ	10 エトンフンティニ	11 ヘレヘレ			12 マンタベニ		
近隣中等学校（生徒数: 人）		M. Mashobeni HS						Ntfonjeni HS			Siphocosini HS		
		学年	生徒数	学級数				学年	生徒数	学級数	学年	生徒数	学級数
		F1	102	2				F1	227	5	F1	162	3
		F2	91	2				F2	194	4	F2	176	4
		F3	41	1				F3	147	3	F3	93	3
		F4	46	1				F4	150	3	F4	113	3
		F5	20	1				F5	83	2	F5	60	2
		計	300	7				計	801	17	計	604	15
		Nlangano C. HS											
		学年	生徒数	学級数									
		F1	189	3									
		F2	158	3									
		F3	116	3									
		F4	194	4									
		F5	123	4									
		計	780	17									
					通学圏内になし。	通学圏内になし。	通学圏内になし。						
通学圏内の既存小学校から発生する就学需要（新設中等学校に影響する推定入学生徒数）		Mlambo PS			Mpakeni PS	Forbes Reef PS	Mgululu PS	Hhelehhele PS			Bhekephi PS		(圏内発生生徒数182人)－(既存Siphocosini HSの吸収生徒数120人)＝62人
		就学需要（人）		57	就学需要（人）	39	就学需要（人）	40	就学需要（人）	28	就学需要（人）	16	就学需要（人）	53	
		Nzongomane PS			KaMngayi PS	Hawane C. PS	Nyakatfo PS	Gobolondlo PS			Hlabozonkhe PS		
		就学需要（人）		21	就学需要（人）	20	就学需要（人）	30	就学需要（人）	39	就学需要（人）	29	就学需要（人）	23	
					Makhava PS				Lufafa PS		Embo Method. PS		
					就学需要（人）	7			就学需要（人）	6	就学需要（人）	32	
											Prince Simon PS		
											就学需要（人）	36	
											All Saints PS		
											就学需要（人）	23	
											Mhlanbanyatsi PS		
											就学需要（人）	15	
想定される学級規模（人）	F1	78			66	70	67	51			62		
	F2	73			62	66	63	48			58		
	F3	50			42	45	43	33			40		
	F4	55			46	49	47	36			43		
	F5	35			30	32	30	23			28		
合計		291			246	262	250	191			231		