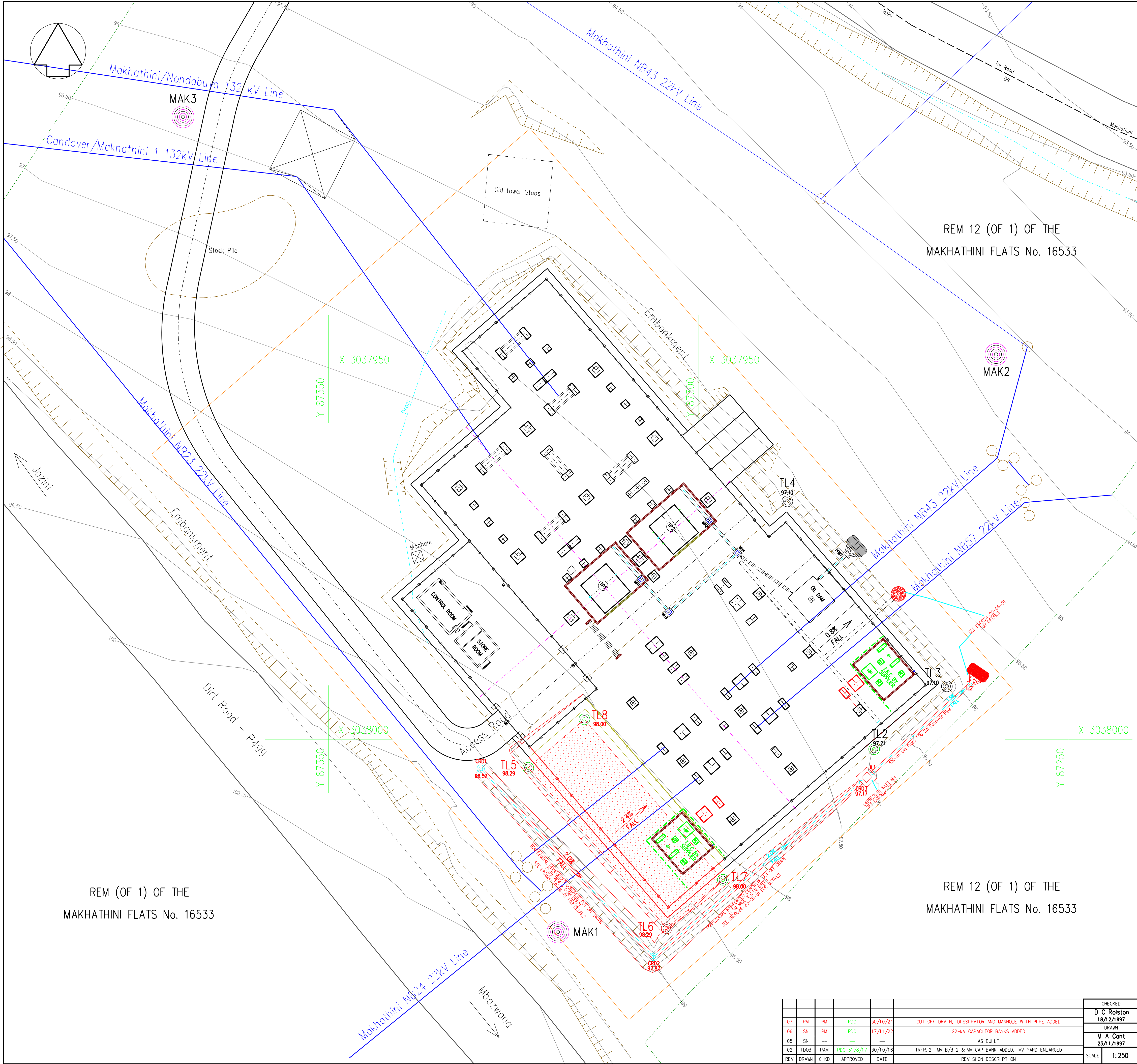




CO-ORDINATES LIST SYSEIM WG31				
POINT	Y	X	Z	DESCRIPTION
HV1	87 352.20	3 037 921.00	-	132-kV TERMINAL TOWER 1
HV2	87 352.20	3 037 921.00	-	132-kV TERMINAL TOWER 2
MV1	-	-	-	22-kV LINE-1
MV2	-	-	-	22-kV LINE-2
MV3	-	-	-	22-kV LINE-3
MV4	-	-	-	22-kV LINE-4
J1	88 801.93	3 033 919.73	145.9	TRIG BEACONS
58	88 665.23	3 033 461.58	147.9	TRIG BEACONS
A	87 320.03	3 037 935.21	-	CADASTRAL BEACONS
B	87 270.36	3 037 994.85	-	CADASTRAL BEACONS
C	87 296.32	3 308 019.71	-	CADASTRAL BEACONS
D	87 323.38	3 038 000.66	-	CADASTRAL BEACONS
E	87 355.09	3 037 962.73	-	CADASTRAL BEACONS
TL2	87 276.30	3 038 001.33	97.210	TERRACE LEVEL
TL3	87 266.48	3 037 992.85	97.100	TERRACE LEVEL
TL4	87 288.04	3 037 967.87	97.100	TERRACE LEVEL
TL5	87 323.04	3 038 003.84	98.288	TERRACE LEVEL
TL6	87 304.33	3 038 025.52	98.288	TERRACE LEVEL
TL7	87 296.74	3 038 018.97	98.000	TERRACE LEVEL
TL8	87 315.45	3 037 997.29	98.000	TERRACE LEVEL
MAK1	87 319.186	3 038 026.652	99.658	CONTROL POINTS
MAK2	87 259.901	3 037 948.828	94.402	CONTROL POINTS
MAK3	87 369.800	3 037 916.250	96.460	CONTROL POINTS
MANHOLE AND OIL DAM INVERT LEVELS				
MH1	87 307.77	3 037 978.42	96.81	MANHOLE 1
MH2	87 298.55	3 037 970.46	96.56	MANHOLE 2
MH3	87 303.98	3 037 982.80	96.56	MANHOLE 3
MH4	87 294.76	3 037 974.85	96.31	MANHOLE 4
INLET	87 287.26	3 037 980.29	96.17	OIL DAM
FLOOR	87 284.77	3 037 981.11	-	OIL DAM
OUTLET	87 284.02	3 037 978.54	96.17	OIL DAM
HW1	87 279.96	3 037 975.04	96.09	HEADWALL 1
MANHOLE AND PIPE INVERT LEVELS, CONCRETE CUT OFF DRAIN				
IL1	87 277	3 038 005	96.065	PIPE IL 1
IL2	87 263	3 037 993	95.318	PIPE IL 2
CDR1	87 329	3 038 004	98.570	TRAPEZOIDAL DRAIN
CDR2	87 306	3 038 029	97.870	TRAPEZOIDAL DRAIN
CDR3	87 278	3 038 006	97.170	TRAPEZOIDAL DRAIN

LEVEL NOTES				
1. ALL LEVELS SHOWN FOR TERRACE CORNER PEGS ARE TOP OF TERRACE LEVELS (EXCLUDES YARDSTONE)				
2. ALL LEVELS SHOWN FOR EDGE OF ROAD PEGS ARE TOP OF G4 SURFACING IN ACCESS ROAD				
LEGEND				
IL - INVERT LEVEL				
RL - ROAD LEVEL (FINISHED)				
TL - TERRACE LEVEL				

NOTES :

GENERAL

1. ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

2. ALL WORK TO CONFORM TO THE BYE-LAWS OF THE LOCAL AUTHORITY, ESKOM REGULATIONS AND THE NATIONAL BUILDING REGULATIONS.

EXCAVATIONS

EXCAVATIONS AND BACKFILLING IN AREAS WHERE EXISTING CABLES ARE SITUATED , MUST BE DONE WITH GREAT CARE.

SOIL POISONED

YARD TERRACE TO BE POISONED USING "OUTPACE" PRIOR TO LAYING OF STONE WITH GREAT CARE.

BANKS

SIDES OF BANKS ARE TO BE TOPSOILED AND PLANTED WITH GRASS ON COMPLETION AND HAVE A MAXIMUM SLOPE OF 1 : 1.5

FENCING

INDICATES FENCING

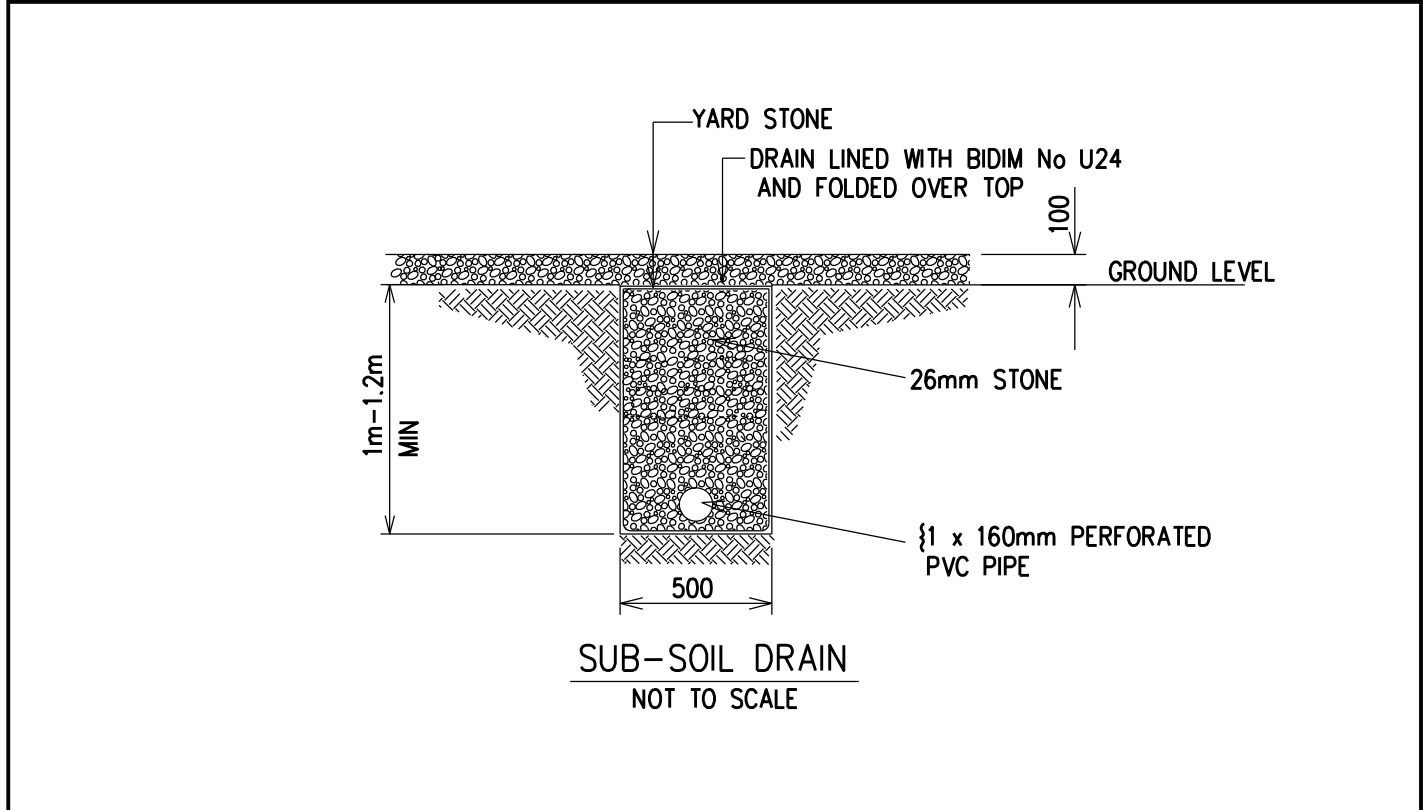
INDICATES ESKOM BOUNDARY

SOAKAWAY FOR TOILET

TO BE 1000x1000x1500mm DEEP AND LINED WITH "BIDUM U24". FILL WITH BOULDER STONE, FOLD "BIDUM" OVER TOP & SEAL WITH 2 REINFORCED CONCRETE SLABS 1200x600x75mm THICK, REINFORCED WITH WELDMESH REF 245, WITH 25mm COVER. CONCRETE TO BE 25MPa.

SEPTIC TANK

CALCAMITE 1750 LITRE OR SIMILAR APPROVED.



					CHECKED		AUTHORISED		MAKHATHINI SUBSTATION 132/22-kV SITE, LEVEL AND DRAINAGE PLAN			ER00024		
					D C Rolston 18/12/1997		F Dolling 17/12/1997							
					DRAWN									
					M A Cont 23/11/1997									
07	PM	PM	POC	30/10/24	CUT OFF DRAIN, DISSIPATOR AND MANHOLE WITH PIPE ADDED									
06	SN	PM	POC	17/11/22	22-kV CAPACITOR BANKS ADDED									
05	SN	---	---	---	AS BUILT									
02	TDOR	PAM	POC 31/8/17	30/10/16	TRFR. 2, MV B/B-2 & MV CAP BANK ADDED, MV YARD ENLARGED									
REV	DRAWN	CHD	APPROVED	DATE	REVISION DESCRIPTION									
					SCALE	1:250								
														
									SET		SHEET	REVISION		
									17		01	07		