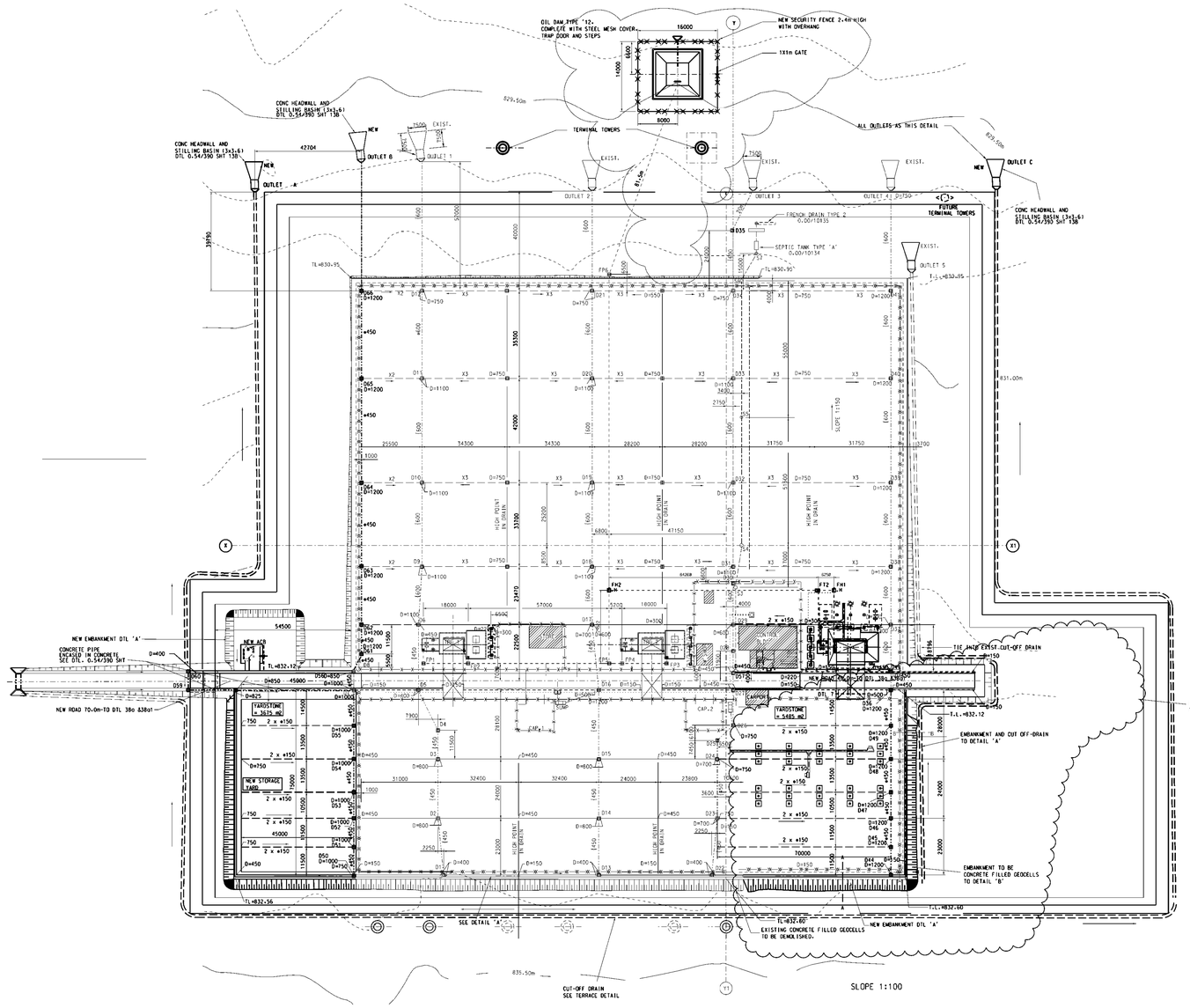
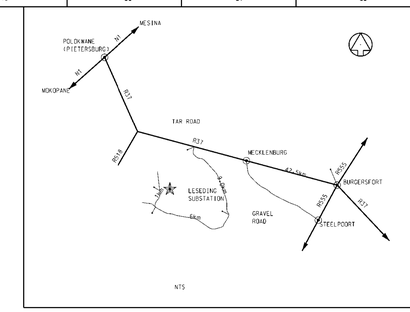


SPECIFICATION OIL DAM UPGRADE

1. EXISTING WATER TO BE PUMPED OUT ESTIMATED 10 000L
2. CAT A V-GROVE ALONG ALL CRACKS
3. THE PREPARED SUBSTRATED SHOULD THEN BE THOROUGHLY SOAKED WITH CLEAN WATER UNTIL UNIFORMELY SATURATED UNTIL NO STANDING WATER
4. FILL WITH SIKA MONOTOP 612 CEMENTITIOUS FIBER REINFORCED REPAIR MORTAR TO BE SPATULA OR TROWELAND FINISH SMOOTH
5. ALLOW TO CURE TO MANUFACTURER SPECIFICATIONS
6. CLEAN ALL SURFACES AND REMOVE LOOSE MATERIALS AND SURFACE LAITENCE MECHANICALLY WITH WIRE BRUSH
7. DAMPENED THE PREPARED SURFACES THOROUGLY WITH CLEAN WATER
8. APPLY TWO COATS SIKA TOP-SEAL 107 FROM SIKA BY BRUSH TO ALL SURFACES, STRICTLY TO MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO NOTE THAT 6 HOURS BETWEEN COATS IS REQUIRED
9. INSTALL COMPARTMENT WALL 0.54/6084
10. INSTALL SUBMERSIBLE PUMP SEE DRAWING LES23P04-SE-044
11. REPLACE WELDED MESH COVER SEE DRAWING 0.54/6084. CONTRACTOR TO MAKE SURE COVER IS FROM STAINLESS STEEL



DRAINAGE - STORMWATER

MH No	TERRACE LEVEL	DIA	DOWN STREAM IL	DEPTH (m)	PIPE LENGTH (m)	SLOPE	CLASS PIPE	CLASS BED	COVER TYPE
D44	832.55	450	831.35	1.200		1:150		B	HD
D45	832.48	450	831.28	1.200	11.50	1:150		B	HD
D46	832.40	450	831.20	1.200	11.50	1:150		B	HD
D47	832.33	450	831.12	1.200	10.50	1:150		B	HD
D48	832.24	450	831.04	1.200	13.50	1:150		B	HD
D49	832.14	450	830.95	1.200	13.50	1:150		B	HD
D36	832.05	450	830.85	1.200	14.50	1:150		B	HD
								B	
D50	832.55	450	831.55	1.000		1:150			
D51	832.48	450	831.48	1.000	11.50	1:150		B	HD
D52	832.40	450	831.40	1.000	11.50	1:150		B	HD
D53	832.33	450	831.32	1.000	10.50	1:150		B	HD
D54	832.24	450	831.24	1.000	13.50	1:150		B	HD
D55	832.14	450	831.14	1.000	13.50	1:150		B	HD
D7	831.97	450	830.97	1.000	14.50	1:150		B	HD
D56	832.00		831.55	0.450		1:150		B	HD
D57	832.00		830.80	1.200		1:150		B	HD
D58	832.01		831.81	1.200		1:150		B	HD
D59	832.55	450	831.35	1.200		1:150		B	HD
D60	832.48	450	831.28	1.200	11.50	1:150		B	HD
D61	831.96	450	830.76	1.200	5.50	1:150		B	HD
D62	831.89	450	830.69	1.200	11.50	1:150		B	HD
D63	831.73	450	830.53	1.200	23.47	1:150		B	HD
D64	831.50	450	830.30	1.200	33.70	1:150		B	HD
D65	831.22	450	830.02	1.200	42.00	1:150		B	HD
D66	830.98	450	829.78	1.200	35.30	1:150		B	HD
WH1	828.98		829.66	0.700		1:150		B	HD
WH2	829.75		829.30	0.700	52.00	1:150		B	HD
WH3	828.80		829.30	0.700		1:150		B	HD

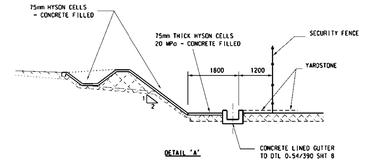
DRAINAGE - FIRE PROTECTION

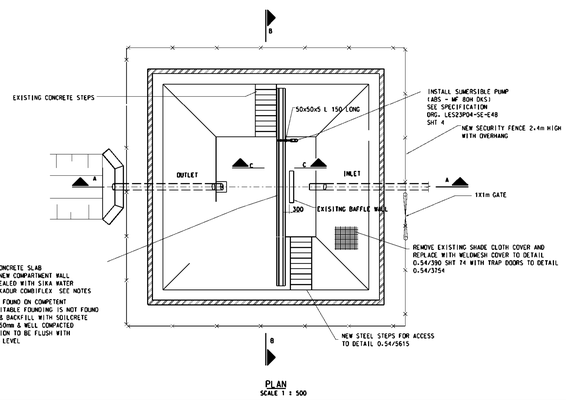
MH No	TERRACE LEVEL	DIA	DOWN STREAM IL	DEPTH (m)	PIPE LENGTH (m)	SLOPE	CLASS PIPE	CLASS BED	COVER TYPE
FH1	831.78	300	831.38	0.400		1:200		B	HD
FF1	831.78	300	831.35	0.430	22.75	1:200		B	HD
FH2	831.78	300	831.20	0.580	23.95	1:200		B	HD
FP3	831.38	300	831.13	1.200	27.80	1:200		B	HD

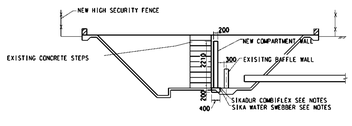
LEGEND

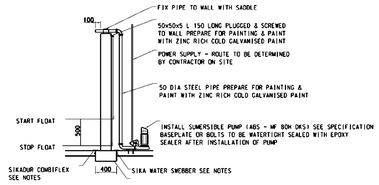
- ⌀ 300 mm CLASS 500 SPIGOT AND SOCKET PIPES WITH NEOPRENE RINGS LAID ON CLASS 'B' BEDDING
- DRAINAGE SYSTEM: VARIOUS DIAMETER CONCRETE PIPES CLASS 500 ON TYPE 'B' BEDDING
- SUB-SOIL DRAIN: x1. x2 OR x3 ⌀ 160 mm uPVC SLOTTED PIPES WITH FALL 1:100 min. SEE DRG 0.54/390 SHT 12B
- SUB-SOIL DRAIN: WITH CONCRETE BASE AS PER DRG 0.54/390 SHT 12C WITH FAL 1:100min.
- CONCRETE GUTTER ON EDGE OF TERRACE AS PER DRG 0.54/390 SHT 8
- CONCRETE GUTTER GRID INLET AS PER DRG 0.54/390 SHT 73 WATER STORAGE TANK AND STAND AS PER 0.54/390 SHT 51
- ⌀ 25 mm HDPE CLASS 6 FROM HEAD TANK TO CONTROL BLOG
- 1DEPTH 0.15m1 - SEE NOTE 1 TO 5
- ⌀160 mm uPVC SEWER PIPE -
- SEWER MANHOLE - FOR DETAILS SEE DRG 0.54/390 SHT 2
- TYPE 1 BRICK MANHOLE - FOR DETAILS SEE DRG 0.54/390 sh 1
- PIPE OUTLET STRUCTURE - FOR DETAILS SEE DRG 0.54/390 SH 13
- CONCRETE LINED GUTTER SLOPE 1:100 - NEXT TO ROAD 0.54/390 SHT 7c
- WH IN GUTTER WITH SIDE OPENINGS SEE DRG 0.54/390 SHT 4
- CONCRETE GUTTER WITH GRATING AS PER DRG 0.54/390 SHT 6

TL TERRACE LEVEL
IL INVERT LEVEL OF PIPE
D=600 DEPTH BELOW TERRACE OR NGL = 600mm









DETAILED DESIGN
NOT FOR CONSTRUCTION
ORIGINAL DRG #: 0.08/19017 SHEET 1 REV 4
CONCEPT DRG #: N/A

REV	REVISION DESCRIPTION	DRAWN	CHKD	AUTH	DATE
0					

STATION ELECTRIC
LES23P04-SE-

APPROVED BY:
DATE:
CHECKED BY:
DATE:
DRAWN BY:
DATE:
SCALE 1:750

Eskom
Eskom Holdings SOC Ltd
Reg No 2002/015527/30

LESEDING
DRAINAGE LAYOUT

LES23P04-SE-D40

SHEET NUMBER 0
REVISION 0

SIZE A0