N

TARRED ROAD

TARRED ROAD

WATER CHANNEL

UNLINED DRAINAGE CHANNEL

BYPASS CHANNEL

SEE OUTLET DETAILS ON DRG MC/LNW-XX/12-04

EXISTING CULVERT 1000mm P.C

IL 318.320

CA

CB IL 318.158

-14 506.339
2 662 722.997

CONCRETE SLAB OVER CHANNEL

CONCRETE SLAB OVER CHANNEL

CONCRETE SLAB OVER CHANNEL

BM 5

MAIN CHANNEL 2

-14 500.825
2 662 757.456

IL 319.500

WV

WV

WV

CONCRETE CHANNEL

IL 320.000

CK

CJ IL 317.505

7 x 1050 x 500 MANHOLE RINGS WITH 50Ø HOLES DRILLED THROUGH TOP FOUR RINGS

7 x 1050 x 500 MANHOLE RINGS WITH 50Ø HOLES DRILLED THROUGH TOP FOUR RINGS

7 x 1050 x 500 MANHOLE RINGS WITH 50Ø HOLES DRILLED THROUGH TOP FOUR RINGS

TOW 318.087
IL 317.387

CD
A

TOW 318.525
IL 317.825

CC
D

TOW 318.087

G

TOW 317.612
IL 316.912

CE
E

TOW 317.612

H

TOW 317.137

F

TOW 317.137

I

IL 316.564

CF

OCA

OCB

OCC

IL 316.690

IL 316.690

IL 316.690

IL 316.680

IL 316.690

IL 316.690

IL 316.690

IL 316.333

IL 316.340

IL 316.340

IL 316.340

IL 315.982

IL 315.875

IL 316.330

IL 315.764

IL 315.643

IL 315.653

12650

22200

12650

47500

12650

22200

12650

47500

43750

43750

20300

11700

11700

10744

11125

11125

34697

14970

14603

IL 318.304

R25000

R25000

R4000

R4000

R10000

R6000

R6000

R6000

R6000

R6000

R3000

R3000

Lagoon 1
TWL 316.700

Lagoon 2
TWL 316.700

Lagoon 3
TWL 316.350

Clearwater Lagoon
TWL 315.400

1050mm Ø OVERFLOW POINT OL 314.500

1500

8500

5000

6000

1500

10900

PUMP STATION

MH

MH

PUMP STATION

METER BOX

300mm Ø PIPELINE

Name	Y	X	Level
A	-14 563.712	2 662 685.893	318.087
B	-14 609.627	2 662 698.060	317.612
C	-14 655.543	2 662 710.226	317.137
D	-14 552.506	2 662 728.184	318.525
E	-14 598.422	2 662 740.350	317.612
F	-14 644.337	2 662 752.516	317.137
G	-14 541.300	2 662 770.475	318.087
H	-14 587.216	2 662 782.641	317.612
I	-14 633.131	2 662 794.807	317.137

NOTES:

CONCRETE NOTES:

1. ALL CONCRETE FOR NEW WORK SHALL BE 25/19 CONCRETE WITH A COVER OF 25mm.
2. MASS CONCRETE TO BE 15/19.
3. ALL SHARP EDGES AT CORNERS OF WALLS AND FLOORS TO BE 20 x 20 CHAMFER.
4. 75mm BLINDING LAYER TO BE PROVIDED (15/19) UNDERNEATH STRUCTURES AS INDICATED.
5. FLOORS SURFACES EXPOSED TO WATER WATER TO BE STEEL FLOAT FINISHED AND TOP OF WALLS TO BE WOOD FLOAT FINISHED.

STRUCTURAL STEEL NOTES:

1. HANDRAILS LADDERS AND STRUCTURAL STEEL WORK, FASTENNERS AND MANHOLE COVER AND FRAMES TO BE GALVERNISED.
2. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH SABS 1200H.
3. WELDS SHALL CONFORM TO SABS 0167-1984 AND 044 SPECS.
4. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE SHOP DRAWINGS COMMENCE. ANY DISCREPENCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. A FULL SET OF SHOP DRAWINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE ANY MANUFACTURING MAY COMMENCE.
6. ALL STRUCTURAL STEELWORK SHALL BE GRADE 300W.
7. ALL STRUCTURAL STEEL WORK ON SITE SHALL BE STORED AND HANDLED SO THAT IT IS NOT SUBJECTED TO DAMAGE OR EXCESSIVE STRESS AND MUST BE KEPT CLEAN.

EARTH WALLS:

1. EARTH WALLS TO BE CONSTRUCTED ACCORDING TO THE PROVISIONS OF SABS 1200 DE.
2. CONSTRUCT THE EARTHWALLS USING MATERIALS FROM THE LAGOON BASINS, OR FROM AREAS ADJUSTING TO EXISTING LAGOONS, BUT STOCKPILE THE SANDY DEPOSITS FOR TOPSOIL.

BENCH MARKS - WGS 84(29) SYSTEM

BM	Y - COORD -0,000	X - COORD +0,000	HEIGHT
BM1	-14 456.836	2 662 846.957	326.371
BM2	-14 347.746	2 662 655.373	336.551
BM3	-14 485.111	2 662 576.305	321.798
BM4	-14 527.460	2 662 663.210	320.878
BM5	-14 502.254	2 662 732.544	321.581

REV	DATE	CHK	APP	DESCRIPTION

CLIENT

LEPELLE NORTHERN WATER
Water is our passion

MUTEO CONSULTING

MUTEO CONSULTING

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POLOKWANE 0699
P.O. BOX 6196
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0750
TEL : (015) 291 4065
FAX : (015) 291 4043
website: www.muteo.co.za

PROJECT APPR	DATE	BY	SIGNATURE
DESIGNED		K. NKWADA Pr-Eng.	
CHECKED		H. MAKWARELA Pr-Eng.	
DRAWN		K. WOOLLEY	
PROJECT MNG.			
APPROVED		H. MAKWARELA Pr-Eng.	
CLIENT			

SCALE

DO NOT SCALE IF IN DOUBT ASK.

ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE

TITLE

CONSTRUCTION OF SLUDGE LAGOON, PUMPSTATION AND PIPELINE

SLUDGE LAGOON LAYOUT PLAN

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LNW-XX/12-02