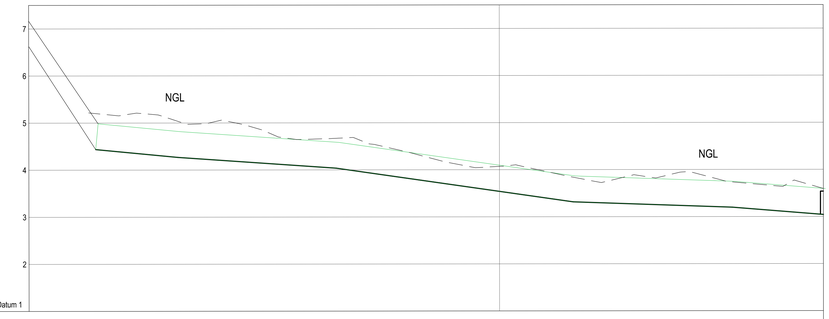


Horizontal Scale: 500
Vertical Scale :50

CHAINAGE	0.000	14.230	31.700	65.309	115.656	149.451	168.813
MANHOLE NAME	TIP CH R1 EX	TIP CH R2	TIP CH R3	TIP CH R4	TIP CH R5	TIP CH R6	TIP MH6
COVER LEVEL	6.80	4.99	4.82	4.59	3.87	3.75	3.54
INLET LEVEL	6.65	4.44 / 4.44	4.27 / 4.27	4.04 / 4.04	3.32 / 3.32	3.20 / 3.20	3.04 / 2.80
DEPTH	0.15	0.55	0.55	0.55	0.55	0.55	0.74
LENGTH		14.23 m	17.47 m	33.61 m	50.35 m	33.80 m	19.36 m
CLASS/SIZE		1077mm top width/500mm bottom width Trapezoidal Channel 5200157-2-001-C-DE-0002-02-RM					
SLOPE		1:6.438	1:104.533	1:144.338	1:69.876	1:286.594	1:124.593

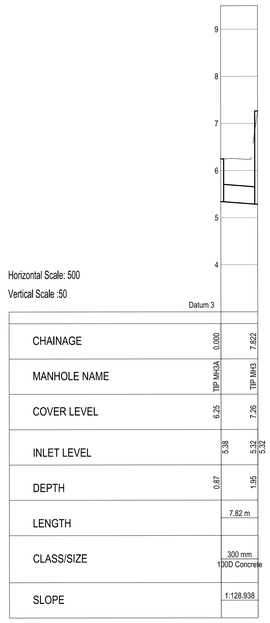
Manhole TIP CH R1 EX to TIP MH6.

RAIL EMBANKMENT

Horizontal Scale: 500
Vertical Scale :50

CHAINAGE	0.000	56.101	110.658	123.513	144.556	5200157-2-001-C-DE-0002-01-RM
MANHOLE NAME	TIP MH1	TIP MH2	TIP MH3	TIP MH4	POND 2 INLET	
COVER LEVEL	7.06	7.49	7.26	6.42	5.75 / 5.7	5.7
INLET LEVEL	6.00	5.91 / 5.91	5.32 / 5.32	5.30 / 5.30	5.27	4.2 / 3.9 / 4.2
DEPTH	1.06	1.58	1.95	1.12	0.49	0.41
LENGTH		56.10 m	54.56 m	12.86 m	21.04 m	5200157-2-001-C-DE-0002-01-RM
CLASS/SIZE		600 mm 100D Concrete	600 mm to be pipe jacked through Rail Embankment 100D Concrete	750 x 600 Class 1 (SATS) Precast Portal Culvert	750 x 600 Class 1 (SATS) Precast Portal Culvert	
SLOPE		1:598.802	1:142.857	1:800.000	1:800.000	

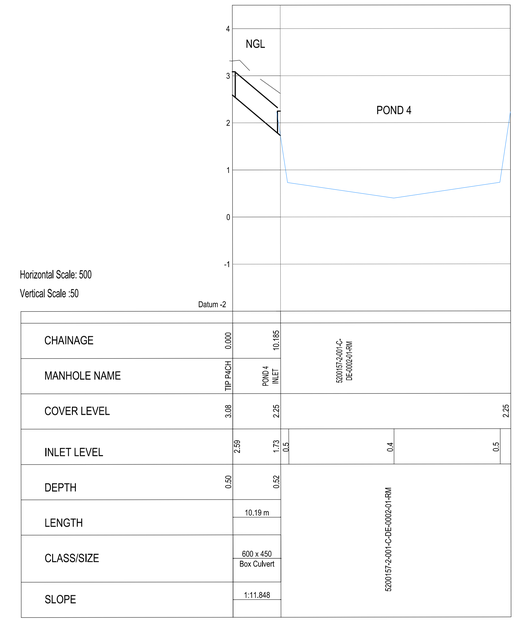
Manhole TIP MH1. to POND 2 INLET



Horizontal Scale: 500
Vertical Scale :50

CHAINAGE	0.000	7.822
MANHOLE NAME	TIP MH3A	TIP MH3
COVER LEVEL	6.25	7.26
INLET LEVEL	5.38	5.32 / 5.32
DEPTH	0.87	1.95
LENGTH		7.82 m
CLASS/SIZE		300 mm 100D Concrete
SLOPE		1:128.938

Manhole TIP MH3A. to TIP MH3.



Horizontal Scale: 500
Vertical Scale :50

CHAINAGE	0.000	10.185	5200157-2-001-C-DE-0002-01-RM	
MANHOLE NAME	TIP P4CH	POND 4 INLET		
COVER LEVEL	3.08	2.25		2.25
INLET LEVEL	2.59	1.73	0.5 / 0.4	0.5
DEPTH	0.50	0.52	5200157-2-001-C-DE-0002-01-RM	
LENGTH		10.19 m		
CLASS/SIZE		600 x 450 Box Culvert		
SLOPE		1:11.848		

Manhole TIP P4CH to POND 4 INLET

DRAWING NO.	REFERENCE

REFERENCE DRAWINGS

NOTES:

a. MEASUREMENTS ARE BASED ON METRIC SYSTEM.
b. ALL LEVELS ARE IN METERS TO MEAN SEA LEVELS (MSL)
c. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
d. THE CONTRACTOR SHALL VERFIY ALL SERVICES OR CONDITIONS ON THE SITE AND NOTIFY THE ENGINEERING OF ANY VARIATIONS FROM DIMENSIONS BEFORE CONSTRUCTION.

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
01	ISSUED FOR CONSTRUCTION	RM	HvdW	RN	24/04/2023
00	ISSUED FOR CLIENT APPROVAL	RM	HvdW	RN	01-07-2022

REVISIONS

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CONTRACTOR / CONSULTANT			
TITLE	NAME	SIGN	DATE

OPERATING DIVISIONS			
TITLE	NAME	SIGN	DATE

TRANSNET PORT TERMINALS			
TITLE	NAME	SIGN	DATE
DRAWN	RM		01 06 22
CHECKED	HvdW		01 06 22
DESIGNED	RM		01 06 22
CHECKED	HvdW		01 06 22

PR.ENG. / PR.TECH./PR. ARCH		
NAME	R. NAIDOO	DATE
SIGNATURE		28 04 23
REG. NUMBER	201070216	
SCALE :	AS SHOWN	A0

Transnet Port Terminals

TRANSNET

PORT OF SALDANHA

TIPPLER AREA

STORMWATER LONGSECTION

SHEET 3 OF 3

PROJECT NUMBER	OD	FBS	DIS	TYPE	DRAWING NO.	SHEET	REV	ID
5200157-2-001-C-SE-0002-03-01								RM