



Sewer Schedule									
Name	Y-Coord	X-Coord	Cover	Inlet	Depth	Length	Slope	Type	Size
MH226	-54110.53	3470649.91	585.40	584.04	1.36	44.11	1.50 %	PVC-U	160 mm
MH227	-54142.22	3470680.59	585.30	583.38	1.92	16.55	1.87 %	PVC-U	160 mm
MH227A	-54137.31	3470696.40	584.43	583.07	1.36	47.18	1.26 %	PVC-U	160 mm
MH228	-54105.27	3470731.03	583.84	582.49	1.36	62.10	1.25 %	PVC-U	160 mm
MH229	-54063.69	3470776.62	583.38	581.87	1.70	59.29	3.82 %	PVC-U	160 mm
MH230	-54064.18	3470835.90	580.97	579.38	1.59	6.44	10.71 %	PVC-U	160 mm
MH231	-54070.54	3470836.91	580.05	578.69	1.36	50.61	12.37 %	PVC-U	160 mm
MH216	-54120.10	3470826.61	575.98	572.40	3.58				
MH232	-54228.98	3470561.34	586.99	585.64	1.36				
MH233	-54194.99	3470521.85	585.58	584.22	1.36	51.52	2.74 %	PVC-U	160 mm
MH234	-54158.78	3470476.68	581.90	580.59	1.31	37.89	6.23 %	PVC-U	160 mm
MH235	-54163.96	3470408.86	578.11	576.76	1.36	68.01	5.63 %	PVC-U	160 mm
MH236	-54169.26	3470334.17	574.59	570.82	3.77	68.49	6.63 %	PVC-U	160 mm
MH237	-54100.84	3470329.40	567.63	566.28	1.36	54.06	7.81 %	PVC-U	160 mm
MH238	-54047.01	3470325.64	563.41	562.02	1.39	53.54	2.44 %	PVC-U	160 mm
MH239	-53999.87	3470351.02	562.54	560.69	1.85	35.29	9.95 %	PVC-U	160 mm
MH240	-53982.76	3470320.16	568.45	557.18	1.27				

BENCH MARKS (WGS 84 Lo = 29) 16mm PEG IN CONCRETE			
Name	Y Co-ord	X Co-ord	Height
BM1	-53150.18	3470371.65	582.722
BM2	-53259.02	3470743.49	589.598
BM3	-53559.38	3470582.26	583.413
BM4N	-54036.16	3470295.45	561.691
BM5	-54194.64	3469955.94	552.564
BM6N	-54173.62	3469551.30	541.106
BM7	-54420.47	3469534.59	542.937
BM8	-54602.56	3469605.56	534.734
BM9	-54962.68	3469858.32	532.258
BM10	-55124.69	3470097.31	539.505
BM11N	-55278.77	3470209.37	538.365
BM12	-55417.76	3470206.85	532.658
BM13	-55527.25	3470498.30	534.251
BM14	-55198.47	3470857.30	550.636
BM15	-55113.18	3471213.19	533.338
BM16	-54702.83	3471105.37	547.184
BM17N	-54589.10	3470816.37	557.286
BM18N	-54387.38	3471152.73	560.729
BM19	-54198.47	3471552.44	560.323
BM20	-53810.21	3471607.79	567.013
BM21	-53562.80	3471635.51	579.429
BM22	-54988.93	3471535.68	572.038
BM23	-55124.29	3471495.36	580.627
BM24	-55357.29	3471755.64	582.194
BM25N	-55452.25	3471979.79	581.060
BM26	-55422.32	3472343.53	590.483
BM27	-55148.29	3472567.22	587.988
BM28N	-55493.80	3472732.48	602.445
BM29	-55670.40	3472988.99	600.959
BM30	-56074.52	3472314.47	610.769

- GENERAL NOTES:
- All Work To Be Done According To The Project Specifications.
 - All Levels And Dimensions To Be Checked On The Site Prior To Commencement Of Any Construction.
 - All Setting Out Coordinates Are On The WGS84, L029 System. Coordinates To Be Checked Prior To Any Construction.
 - All Existing Services To Be Exposed To Establish Exact Levels Before Construction May Commence.
 - The Contractor Must Liaise With Responsible Service Providers With Respect To Affected Services And Protection Thereof.
 - The Contractor Must Liaise With The Roads & Stormwater Division With Respect To Reinstatement Of Road Surfacing & Sidewalks.
 - Where Applicable Trenchfill To Extend 1m On Either Side Of The Road Edge.
 - All Conditions As Specified In The Environmental Management Plan, Must Be Complied With.
 - Maximum Deflection Angle At Couplings To Comply With Minimum Recommended By Pipe Manufacturer.
 - All Future Sewer Reticulation Pipelines To Be 160mmØ. Connections Into Manholes To Be As Directed On Site By The Engineer.
 - Existing Sewer Reticulation To Be Confirmed On Site. Connections Into Manholes To Be As Directed On Site By The Engineer.
 - Existing Septic and Conservancy Tanks to be confirmed on site and house connections to be adjusted as directed by the Engineer Where two invert levels are given, they refer to invert levels at the centre of the manhole.

LEGEND

LUSIKISIKI HILBROW SITE LIMITS

--- PROPOSED Ø110mm ERF CONNECTING SEWERS
Each Connection to be fixed on site

--- PROPOSED Ø160mm SEWER RETICULATION

--- EXISTING INTERCEPTOR SEWERS

SEWER PIPE		NGL	
SCALE		VERTICAL 1 : 250	
		HORIZONTAL 1 : 1000	
Chainage	0.000	44.110	60.658
Ground Level	585.402	585.300	584.431
Manhole Name	MH226	MH227	MH227A
Invert Level	584.045	583.353	583.074
Link Type / Link Size	PVC-U 160 mm	PVC-U 160 mm	PVC-U 160 mm
Length / Slope	44.110 m 1.501 %	16.548 m 1.887 %	47.192 m 1.257 %
Flow	0.097 l/s	0.097 l/s	0.260 l/s
Capacity	15.890 l/s	17.724 l/s	14.541 l/s
Velocity/Full-bore Velocity	0.326 m/s 1.362 m/s	0.384 m/s 1.519 m/s	0.415 m/s 1.246 m/s
Depth	1.357	1.917	1.357

SEWER PIPE		NGL	
SCALE		VERTICAL 1 : 250	
		HORIZONTAL 1 : 1000	
Chainage	107.840	169.945	229.237
Ground Level	583.838	583.376	580.966
Manhole Name	MH228	MH229	MH230
Invert Level	582.481	581.675	580.046
Link Type / Link Size	PVC-U 160 mm	PVC-U 160 mm	PVC-U 160 mm
Length / Slope	62.105 m 1.246 %	59.292 m 3.822 %	8.444 m 10.708 %
Flow	0.519 l/s	0.562 l/s	0.562 l/s
Capacity	14.498 l/s	25.356 l/s	42.442 l/s
Velocity/Full-bore Velocity	0.401 m/s 1.242 m/s	0.763 m/s 2.173 m/s	1.110 m/s 3.637 m/s
Depth	1.357	1.701	1.357

MH226 to MH216

MH232 to MH240

FOR TENDER PURPOSES

Rev

Date

By

LA

First Issue For Tender

Checked

Appr'd

Rev

Date

By

NL

IF

Client

O.R. TAMBO DISTRICT MUNICIPALITY

Scale

AS SHOWN

Drawn

N. LELALA

Discipline

CIVIL

Date

MAY 2020

Designed By

N. LELALA

Signature

Checked By

J. FIELD

Signature

HATCH

In Joint Venture With

Tshiki Consulting Engineers

SEWER RETICULATION AND PROJECT MANAGEMENT

Project

LUSIKISIKI SEWER RETICULATION

Title

PHASE 3A : HILBROW
PLAN AND LONCTIONS
SHEET 2 OF 6

Sheet

A0

Contract No.

20209

Drawing No.

20209/03A/00/500/201

Revision

1

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