



**PIPE HORIZONTAL ALIGNMENT**

Section : D2-1\_to\_D2-1-2

Nr.	Manhole	Y-coord.	X-coord.
1	D2-1	-91800.904	2884638.146
2	D2-1-1	-91829.035	2884565.989
3	D2-1-2	-91866.055	2884337.209

Section : D2-2\_to\_D2-2-2

Nr.	Manhole	Y-coord.	X-coord.
1	D2-2	-91837.382	2884650.849
2	D2-2-1	-91865.236	2884609.207
3	D2-2-2	-91905.201	2884549.317

Section : D2-3\_to\_D2-3-2

Nr.	Manhole	Y-coord.	X-coord.
1	D2-3	-91873.861	2884673.751
2	D2-3-1	-91899.971	2884634.623
3	D2-3-2	-91939.935	2884574.733

Section : D2-4\_to\_D2-4-2

Nr.	Manhole	Y-coord.	X-coord.
1	D2-4	-91910.340	2884696.553
2	D2-4-1	-91931.905	2884664.235
3	D2-4-2	-91973.202	2884602.349

Section : JCX0\_to\_JC4

Nr.	Manhole	Y-coord.	X-coord.
1	JCX0	-92040.202	2884187.120
2	JC1	-92041.364	2884191.037
3	JC2	-92046.385	2884269.434
4	JC3	-92049.424	2884316.877
5	JC4	-92033.390	2884333.651

**PIPE HORIZONTAL ALIGNMENT**

Section : JC4\_to\_A8

Nr.	Manhole	Y-coord.	X-coord.
1	JC4	-92033.390	2884333.651
2	A1	-92021.451	2884349.697
3	A2	-92010.219	2884341.340
4	A3	-91966.055	2884337.209
5	A4	-91947.316	2884361.396
6	A5	-91914.844	2884403.310
7	A6	-91882.371	2884445.224
8	A7	-91842.312	2884469.020
9	A8	-92000.448	2884531.496

Section : A6\_to\_A6-1

Nr.	Manhole	Y-coord.	X-coord.
1	A6	-91882.371	2884445.224
2	A6-1	-91862.765	2884470.531

Section : A5\_to\_A5-4

Nr.	Manhole	Y-coord.	X-coord.
1	A5	-91914.844	2884403.310
2	A5-1	-91974.508	2884466.904
3	A5-2	-92034.964	2884491.076
4	A5-3	-92048.597	2884499.730
5	A5-4	-92018.001	2884553.458

Section : A4\_to\_A4-2

Nr.	Manhole	Y-coord.	X-coord.
1	A4	-91947.316	2884361.396
2	A4-1	-92002.787	2884401.926
3	A4-2	-92061.307	2884444.684

Section : A1\_to\_A1-3

Nr.	Manhole	Y-coord.	X-coord.
1	A1	-92021.451	2884349.697
2	A1-1	-92041.799	2884364.835
3	A1-2	-92091.600	2884424.214
4	A1-3	-92071.293	2884459.873

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
3. DO NOT SCALE FROM THESE DRAWINGS.
4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND JOBS STANDARDS DRAWINGS.
6. WAYLEAVES TO BE OBTAINED AND THE ACTUAL POSITION OF SERVICES TO BE DETERMINED ON SITE PRIOR TO COMMENCEMENT OF EXCAVATIONS.

**PIPE HORIZONTAL ALIGNMENT**

Section : ZS31\_to\_ZS31-3

Nr.	Manhole	Y-coord.	X-coord.
1	ZS31	-91560.584	2884663.331
2	ZS31-1	-91565.814	2884728.242
3	ZS31-2	-91571.043	2884793.152
4	ZS31-3	-91576.273	2884858.063

Section : ZS33\_to\_B12

Nr.	Manhole	Y-coord.	X-coord.
1	ZS33	-91672.345	2884683.684
2	B1	-91696.506	2884687.429
3	B2	-91701.959	2884688.274
4	B3	-91740.079	2884712.048
5	B4	-91741.799	2884720.893
6	B5	-91756.985	2884751.209
7	B6	-91779.791	2884785.345
8	B7	-91782.183	2884792.276
9	B8	-91784.885	2884806.140
10	B9	-91781.458	2884819.995
11	B10	-91798.675	2884822.090
12	B11	-91835.258	2884851.895
13	B12	-91874.714	2884792.633

Section : ZS33\_to\_B12\_1

Nr.	Manhole	Y-coord.	X-coord.
1	ZS33	-91672.345	2884683.684
2	C1	-91689.508	2884661.529

Section : B5\_to\_B5-4

Nr.	Manhole	Y-coord.	X-coord.
1	B5	-91756.985	2884751.209
2	B5-1	-91779.442	2884739.064
3	B5-2	-91801.289	2884769.476
4	B5-3	-91822.414	2884793.596
5	B5-4	-91837.385	2884771.112

Section : B1\_to\_B1-7

Nr.	Manhole	Y-coord.	X-coord.
1	B1	-91696.506	2884687.429
2	B1-1	-91706.866	2884670.816
3	B1-2	-91716.987	2884654.588
4	B1-3	-91737.884	2884639.525
5	B1-4	-91803.917	2884680.706
6	B1-5	-91864.824	2884718.691
7	B1-6	-91879.324	2884731.269
8	B1-7	-91912.637	2884752.045

Section : B1-1\_to\_B1-1-3

Nr.	Manhole	Y-coord.	X-coord.
1	B1-1	-91706.866	2884670.816
2	B1-1-1	-91757.613	2884702.506
3	B1-1-2	-91824.043	2884743.989
4	B1-1-3	-91890.347	2884785.933

Section : B1-3\_to\_D8

Nr.	Manhole	Y-coord.	X-coord.
1	B1-3	-91737.884	2884639.525
2	D1	-91747.173	2884632.829
3	D2	-91764.425	2884605.344
4	D3	-91795.379	2884558.956
5	D4	-91834.056	2884500.995
6	D5	-91852.739	2884483.038
7	D6	-91902.773	2884519.650
8	D7	-91953.211	2884556.559
9	D8	-92003.649	2884593.467

Section : D2\_to\_D2-5

Nr.	Manhole	Y-coord.	X-coord.
1	D2	-91764.425	2884605.344
2	D2-1	-91800.904	2884628.146
3	D2-2	-91837.382	2884650.949
4	D2-3	-91873.861	2884673.751
5	D2-4	-91910.340	2884696.553
6	D2-5	-91930.956	2884709.441

**LEGEND**

	1600	INTERNAL SEWER PIPES
	Ø	EXTERNAL LINK SEWER PIPES
	B1-1	SEWER MANHOLES
		SEWER ERF CONNECTIONS
	1600	LAMPHOLE SEWER CONNECTION
		FLOODLINE 1:50
		FLOODLINE 1:100
		WETLAND DELIMITATION
		32m WETLAND BUFFER

<b>CONSULTANT</b>  PRETORIA 89 GARSTFONTEIN ROAD APHLEN PARK P.O. BOX 36868 MENLO PARK TEL: 012 346 2767 E-MAIL: pretoria@hcon.co.za	<b>CLIENT</b>  CityDev (Pty) Ltd www.citydev.co.za 96 JORISSEN STREET BRAAMFONTEIN TEL: 011 480 8633 E-MAIL: nicolas@citydev.co.za	<b>PROJECT</b> <b>ZANDSPRUIT x94, 95 &amp; 96</b> CONSTRUCTION OF CIVIL ENGINEERING INFRASTRUCTURE	<b>DRAWING TITLE</b> GENERAL LAYOUT PLAN INTERNAL SEWERS	DESIGNED: BJD DRAWN: SG CHECKED: BJD APPROVED: BJD DATE: Feb22	SIGNATURE FOR HLANGANANI  DATE: Feb22	SCALE <b>1 : 1,250</b>
				NO. DATE REVISION DRAWN NO. DATE REVISION DRAWN	REVISION NUMBER <b>B</b>	HLANGANANI DRAWING NUMBER <b>PZ943 / WUL_S1 / B</b>