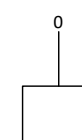
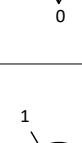
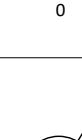
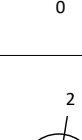
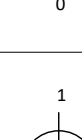
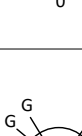
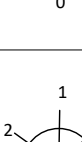
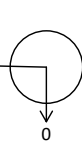
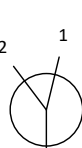
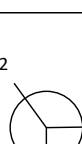
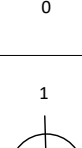
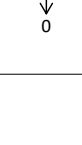
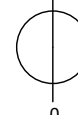
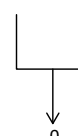
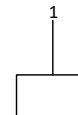


Section 104 Adoptable Surface Water Manhole Schedule									
Network 1 - Sheet 1 of 1									
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		
Coordinates	Depth To Soffit		Code	Inverts	Diams Invert		Manhole	Cover	
HW1						Precast Althon SFA 10 C Headwall			
E. 523819.502	1.150								
N. 309539.270	0.850								
S1			1 G G	Lateral Gully Gully	0.921 0.921 0.921	150 150 150	1500	C	D400
E. 523673.616	2.294								
N. 309607.206	1.223		0	1.000	0.696	375			
S2			1 2	1.000 Lateral	0.608 0.833	375 375	1350	C	D400
E. 523697.523	2.309								
N. 309595.584	1.326		0	1.001	0.608	375			
S3			1 2	1.001 Lateral	0.517 0.742	375 150	1350	C	D400
E. 523712.673	2.050								
N. 309572.774	1.158		0	1.002	0.517	375			
S4			G G G G	Gully Gully Gully Gully	0.735 0.735 0.735 0.735	150 150 150 150	2100	C	D400
E. 523728.300	2.011								
N. 309578.365	1.125		0	2.000	0.511	375			
S5			1 2	2.000 1.002	0.471 0.471	375 375	1500	C	D400
E. 523724.945	2.152								
N. 309566.977	1.306		0	1.003	0.396	450			
S6			1 2 3	1.003 Lateral	0.257 0.557 0.557	450 150 150	2100	C	D400
E. 523778.226	2.082								
N. 309551.279	1.375		0	1.004	0.257	450			
S6A			1 G G G	Lateral Gully Gully Gully	0.584 0.584 0.584 0.584	150 150 150 150	2100	C	D400
E. 523780.480	1.997								
N. 309558.971	1.263		0	3.000	0.359	375			
S7			1 2 3 G G G	1.004 Lateral Gully Gully	0.175 0.475 0.475 0.584 0.475	450 150 150 150 150	1500	C	D400
E. 523810.024	1.909								
N. 309541.896	1.284		0	1.005	0.175	450			

Section 104 Adoptable Surface Water Manhole Schedule									
Network 1 - Sheet 1 of 1									
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		
Coordinates	Depth To Soffit		Code	Inverts	Diams Inv-soffit		Manhole	Cover	
F1	2.150		1	Lateral	0.950	150	1200	Unknown	D400
E. 523784.537 N. 309547.501	1.050		0	2.005	0.950	150			
F2	2.250		1	2.005	0.030	150	1200	Unknown	D400
E. 523742.754 N. 309559.812	2.070		2	Lateral	0.030	150			
			0	2.006	0.030	150			
F3	2.050		1	Lateral	-0.175	150	1200	Unknown	D400
E. 523713.495 N. 309569.112	2.075		2	2.006	-0.175	150			
			0	2.007	-0.175	150			
F4	2.280		1	2.007	-0.393	150	1200	Unknown	D400
E. 523694.609 N. 309595.746	2.523		2	Lateral	-0.393	150			
			0	2.008	-0.393	150			
F5	2.193		1	2.008	-0.477	150	1200	Unknown	D400
E. 523684.148 N. 309588.591	2.520		0	2.009	-0.477	150			
			0	2.009	-0.477	150			
F6	1.938		1	Lateral	-0.640	150	1200	Unknown	D400
E. 523677.330 N. 309565.057	2.428		2	2.009	-0.640	150			
			0	2.010	-0.640	150			
PUMP INLET	2.190		1	2.010	-0.774	150	1200	B	D400
E. 523659.820 N. 309570.391									
F7	2.810		1	Rising main			1200	C	D400
E. 523696.236 N. 309751.334	0.461		0	2.011	2.199	150			

Private Surface Water Manhole Schedule						
Network 1 - Sheet 1 of 1						
FC1		1	1.007	0.092	450	2.1m pre-cast concrete hydrobrake chamber to limit flows from site to greenfield runoff equivalent. Cover type: D400 Design flow: 10.0/s Design head: 0.740 Unit ref: MD-SHE-0149-1000-0740-1000
E.	523838.041	1.350				
N.	309563.199	1.033				
			0	1.008	0.092	225
HW2		1.150				Precast Althon SFA 10 C Headwall
E.	523831.826	0.880				
N.	309565.093		0	1.007	0.120	
			1	1.008	0.030	225
HW3		1.050				Precast Althon SFA 10 C Headwall
E.	523845.282	0.795				
N.	309560.993					
						

Pipe Number	US/MH Name	pe Length (')	Fall (in)	Slope (1:X)	Area (sq)	Houses	pe Rough (in)	US/LI (in)	US/CL (in)	ipe DIA (mm)
2.000	FP2	4.993	0.033	148.3	0.000	1	1.500	1.380	2.050	150
2.001	FP3	29.331	0.192	152.8	0.000	3	1.500	1.347	2.050	150
3.000	FP4	2.830	0.210	13.5	0.000	1	1.500	1.365	2.100	150
3.002	FP5	13.236	0.088	150.4	0.000	2	1.500	1.155	2.100	150
2.003	FP6	9.674	0.067	144.4	0.000	0	1.500	1.067	2.100	150
2.004	LMF1	8.048	0.050	161.0	0.000	0	1.500	1.000	2.100	150
2.005	1	43.559	0.920	47.3	0.000	0	1.500	0.950	2.150	150
4.000	FP7	5.620	0.555	10.1	0.000	1	1.500	1.430	2.100	100
5.000	FP8	15.428	0.305	50.6	0.000	0	1.500	1.505	2.200	100
5.001	FP8	25.689	0.325	79.0	0.000	3	1.500	1.200	2.200	100
4.001	FP9	28.255	0.305	92.6	0.000	4	1.500	0.875	2.100	100
6.000	FP10	25.322	0.820	31.2	0.000	4	1.500	1.380	2.150	100
4.002	FP11	12.442	0.920	43.5	0.000	2	1.500	1.450	2.250	150
4.003	FP12	12.247	0.800	153.1	0.000	0	1.500	0.820	2.250	150
4.003	LMF2	7.389	0.500	147.8	0.000	0	1.500	0.800	2.250	150
2.006	2	30.702	0.205	149.8	0.000	0	1.500	0.030	2.250	150
8.000	FP13	10.981	0.140	78.4	0.000	2	1.500	1.310	2.100	100
9.000	FP14	4.331	0.180	24.1	0.000	2	1.500	1.350	2.100	100
8.001	FP15	32.008	0.545	60.2	0.000	2	1.500	1.120	2.100	150
8.002	FP16	44.567	0.300	148.6	0.000	6	1.500	0.575	2.150	150
10.000	FP17	10.271	0.555	18.5	0.000	2	1.500	0.880	2.100	100
8.003	FP18	14.639	0.095	154.1	0.000	0	1.500	0.275	2.100	150
8.004	LMF3	6.387	0.355	18.0	0.000	0	1.500	0.180	2.218	150
2.007	3	32.650	0.128	150.0	0.000	0	1.500	-0.175	2.050	150
11.000	FP19	15.289	0.195	78.4	0.000	4	1.500	1.135	2.100	100
11.001	FP20	10.169	0.085	119.6	0.000	4	1.500	0.940	2.200	150
12.000	FP21	9.926	0.205	48.4	0.000	2	1.500	1.305	2.050	100
12.001	FP22	11.037	0.105	105.1	0.000	0	1.500	1.100	2.050	100
13.000	FP23	13.641	0.340	40.1	0.000	2	1.500	1.400	2.100	100
14.000	FP24	5.107	0.065	78.6	0.000	1	1.500	1.225	2.175	100
14.001	FP25	6.450	0.100	64.5	0.000	2	1.500	1.160	2.175	100
13.001	FP26	5.111	0.065	78.6	0.000	0	1.500	1.060	2.150	100
12.002	FP27	11.164	0.140	79.7	0.000	0	1.500	0.995	2.050	100
11.002	FP28	6.190	0.040	154.8	0.000	0	1.500	0.805	2.200	150
11.003	LMF4	8.000	0.800	10.0	0.000	0	1.500	-0.407	2.392	150
2.008	4	12.673	0.084	150.0	0.000	0	1.500	-0.393	2.280	150
2.009	5	24.502	0.163	150.0	0.000	0	1.500	-0.477	2.193	150
15.000	FP29	13.831	0.175	79.0	0.000	3	1.500	2.000	2.050	100
15.001	FP30	2.871	0.060	84.5	0.000	2	1.500	1.925	2.190	150
16.000	FP31	12.872	0.435	39.6	0.000	1	1.500	1.400	2.350	100
15.002	FP32	14.065	0.341	41.2	0.000	2	1.500	0.965	2.220	100
17.000	FP33	13.692	0.176	77.8	0.000	1	1.500	0.800	2.400	100
15.003	FP34	6.727	0.084	80.1	0.000	0	1.500	0.624	2.230	100
15.004	LMF5	2.663	1.130	2.4	0.000	0	1.500	-0.490	2.046	150
2.010	6	19.984	0.133	150.0	0.000	0	1.500	-0.640	1.938	150

Pipe Number	US/MH Name	Pipe Length (m)	Full (m)	Slope (1:100)	Time of Entry (mins)	US/L (m)	US/C/L (m)	Pipe DIA (mm)
1.000	SP1	10.570	0.105	100.7	5.00	1.455	2.100	100
1.001	SP2	12.325	0.165	62.6		1.444	2.250	100
1.002	SP3	13.168	0.275	47.9		1.280	2.250	100
2.000	SP4	16.098	0.107	100.0	5.00	1.550	2.100	100
2.001	SP5	11.327	0.438	25.9		1.443	2.200	100
1.003	LM51	5.197	0.074	70.2		0.955	2.200	150
1.004	S1	26.582	0.089	298.7		0.686	2.294	375
3.000	SP8	14.092	0.140	100.7	5.00	1.500	2.050	100
3.001	SP9	14.955	0.146	102.4		1.360	2.130	100
4.000	SP10	14.452	0.288	50.5	5.00	1.500	2.050	100
3.002	SP11	8.430	0.084	100.4		1.214	2.020	100
5.000	SP12	18.280	0.570	23.3	5.00	1.700	2.250	100
3.003	SP13	10.130	0.130	100.0		1.480	2.150	100
4.004	SP14	7.077	0.069	104.1		0.959	2.200	150
6.000	SP15	9.598	0.768	12.5	5.00	1.700	2.250	100
3.005	LM52	7.437	0.049	151.8		0.882	2.399	150
1.005	S2	27.383	0.091	300.9		0.608	2.399	375
7.000	SP18	12.251	0.260	47.1	5.00	1.500	2.050	100
7.001	SP19	8.084	0.081	99.8		1.240	2.209	100
8.000	SP20	10.220	0.105	97.3	5.00	1.400	2.050	100
9.000	SP21	6.284	0.205	30.7	5.00	1.500	2.150	100
8.001	SP22	3.813	0.338	28.0		1.295	2.050	100
7.002	SP23	19.968	0.200	99.8		1.159	2.205	100
7.003	SP24	12.307	0.029	101.3		0.725	2.050	100
10.000	SP25	8.070	0.081	99.6	5.00	1.525	2.175	100
10.001	SP26	10.814	0.114	94.9		1.444	2.118	100
10.002	SP27	6.098	0.400	15.2		1.330	2.094	100
7.004	SP28	5.546	0.087	75.2		0.930	2.200	100
7.005	LM53	7.854	0.051	150.1		0.793	2.200	150
1.006	S3	13.573	0.046	295.1		0.517	2.050	375
11.000	SP31	15.049	0.150	100.3	5.00	1.500	2.100	100
11.001	SP32	9.918	0.125	79.3		1.350	2.148	100
12.000	SP33	15.352	0.225	68.2	5.00	1.450	2.100	100
12.001	SP34	14.880	0.250	59.5		1.225	2.085	100
13.000	SP35	9.243	0.105	89.0	5.00	1.400	2.100	100
14.001	SP36	12.370	0.190	100.0		1.400	2.100	100
14.002	SP37	9.133	0.295	31.0	5.00	1.400	2.100	100
13.002	SP38	12.861	0.130	98.9		1.105	2.100	100
15.000	SP39	15.216	0.475	32.0	5.00	1.450	2.100	100
11.003	SP40	15.918	0.110	144.7		0.925	2.075	150
11.004	LM54	4.419	0.029	152.4		0.815	2.100	150
11.005	S4	11.872	0.404	296.8		0.511	2.011	375
1.007	S5	55.546	0.139	399.8		0.396	2.152	450
16.000	SP44	11.427	0.280	40.8	5.00	1.500	2.200	100
16.001	SP45	10.228	0.165	98.3		1.220	2.200	100
17.000	SP46	10.816	0.445	24.3	5.00	1.500	2.250	100
18.000	SP47	10.295	0.105	97.2		1.300	2.200	100
18.001	SP48	7.076	0.340	40.4		1.395	2.200	100
16.002	SP49	6.501	0.065	100.0		1.005	2.300	150
18.000	SP50	11.758	0.285	41.4	5.00	1.275	2.208	100
16.003	SP51	10.176	0.110	92.5		0.940	2.225	150
20.000	SP52	10.034	0.150	66.9	5.00	1.700	2.250	100
20.001	SP53	11.621	0.120	96.8		1.550	2.250	100
20.002	SP54	16.043	0.459	35.0		1.430	2.250	100
21.000	SP55	9.546	0.179	53.3	5.00	1.300	2.000	100
20.003	SP56	16.056	0.241	66.6		0.921	2.250	150
16.004	SP57	6.577	0.078	110.0		0.680	2.188	150
16.005	LM55	5.281	0.068	31.4		0.592	2.150	150
19.005	SP58	11.082	0.027	298.9		0.315	1.997	150
22.000	SP60	11.306	0.117	96.6	5.00	1.350	2.069	100
22.001	SP61	12.551	0.083	151.2		1.183	2.100	150
23.000	SP62	13.262	0.130	102.0	5.00	1.280	2.158	100
22.002	SP63	16.706	0.110	151.9		1.100	2.100	150
24.000	SP64	5.586	0.455	12.9	5.00	1.600	2.260	100
24.001	SP65	10.848	0.105	100.5		1.145	2.205	100
22.003	SP66	17.090	0.110	155.4		0.980	2.100	150
25.000	SP67	10.806	0.415	26.0	5.00	1.345	2.150	100
22.004	SP68	18.451	0.120	153.8		0.880	2.250	150
22.005	SP69	12.758	0.082	155.6		0.760	2.100	150
26.000	SP70	11.082	0.073	151.8		1.200	2.229	100
26.000	SP71	3.322	0.200	46.6	5.00	1.450	1.100	100
26.001	SP72	3.267	0.595	5.5		1.250	2.107	100
22.007	LM56	7.279	0.048	151.8		0.530	2.225	225
1.008	S6	33.153	0.083	399.4		0.257	2.082	450
27.000	SP75	12.828	0.345	37.2	5.00	1.500	2.200	100
28.000	SP76	11.848	0.115	103.0	5.00	1.400	2.050	100
28.001	SP77	12.843	0.130	98.8		1.285	2.000	100
27.001	SP78	11.616	0.110	105.6		1.155	1.930	100
27.002	SP79	7.770	0.080	97.1		1.045	1.950	100
27.003	SP80	9.802	0.100	98.0		0.965	2.100	100
28.002	SP81	16.451	0.365	31.5	5.00	1.600	2.100	100
27.004	SP82	13.971	0.089	89.9		0.810	1.900	150
30.000	SP83	13.810	0.290	47.5		1.450	2.100	100
30.001	SP84	3.898	0.383	10.2		1.160	1.100	100
31.000	SP85	5.035	0.356	14.1	5.00	1.133	2.180	100
27.005	LM57	8.511	0.252	33.8		0.727	2.100	150
32.000	SP87	11.581	0.120	96.5	5.00	1.450	2.100	100
32.001	SP88	10.238	0.469	21.8		1.330	2.190	100
33.000	SP89	13.047	0.589	22.2	5.00	1.450	2.100	100
32.002	SP90	1.668	0.017	100.0		0.861	2.190	100
32.003	SP91	2.899	0.029	100.0		0.794	2.190	150
32.004	SP92	6.819	0.225	30.3		0.765	2.190	150
34.000	SP93	6.341	0.510	12.4	5.00	0.910	2.100	100
34.001	SP94	3.374	0.350	12.5		0.940	2.100	100
35.000	SP95	4.539	0.475	9.6	5.00	1.065	2.040	100
32.005	LM58	9.520	0.085	146.5		0.540	2.190	150
1.009	S7	9.835	0.025	393.4		0.175	1.909	450
1.010	SP98	26.813	0.030	953.8		0.150	1.150	500
1.011	SP99	6.496	0.028	232.0		0.120	1.150	450
1.012	SP100	1.750	0.062	122.1		0.092	1.350	225

General Notes

This drawing is to be used in conjunction with all relevant drawings, specifications and details.

All dimensions are in metres unless noted otherwise

Do not scale from this drawing



HIGH GROUNDWATER AND TRENCH INSTABILITY

Due to High Groundwater Table encountered there are potential issues with ingress of water within trenches. This can cause instability and collapse. Groundworker to ensure appropriate trench shoring up and de-watering works.



LOW STRENGTH ORGANIC SOILS

Due to the presence of organic soils designed levels have been kept to less than 1.3m build up to reduce the chance of settlement.

Buried services should be designed with flexible joints to allow the uptake of future movement cause by settlement of the soft soils beneath the site.

Ground reinforcement required where CBRs less than 2%. To be designed by a specialist.

Rev	E	Drawing status updated to construction issue
Rev	D	Foul manhole schedule updated to suit new foul design following comments from client
Rev	C	Pipeline schedules added to layout following request from client
Rev	B	Manhole schedules revised to suit Section 104 and client comments
Rev	A	Manhole schedules revised to suit updated road levels

By RF	Checked TH	04.02.2021
By RF	Checked TH	29.11.2021
By SF	Checked RF	11.12.2020
By RF	Checked TH	03.11.2020
By RF	Checked TH	25.09.2020

Drawn By:	ML	Client Geda Construction Project Housing Development Crease Drove Crowland Title Manhole Schedules			
Chkd By:	TH				
Scale @ A1:	NTS				
Date:	March 2020				
Status:	CONSTRUCTION				
Project No.:	11557H	Drawing No:	103	Rev:	E



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