

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 99.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	37.168	0.079	16.4	0.1135	0.0000	OK
15 minute summer	2	11	36.670	0.309	91.4	0.4420	0.0000	SURCHARGED
600 minute winter	3	585	36.337	0.392	8.7	0.5611	0.0000	SURCHARGED
600 minute winter	5	600	36.337	0.704	15.0	1.0076	0.0000	SURCHARGED
600 minute winter	4	600	36.337	0.571	8.7	0.8173	0.0000	SURCHARGED
15 minute summer	6	10	38.233	0.158	60.2	0.2257	0.0000	OK
15 minute summer	7	10	37.930	0.186	72.9	0.2667	0.0000	OK
15 minute summer	8	11	37.758	0.365	72.7	0.5220	0.0000	SURCHARGED
15 minute summer	9	11	37.704	0.383	100.1	0.5483	0.0000	SURCHARGED
15 minute summer	10	11	37.512	0.399	49.3	0.5709	0.0000	SURCHARGED
15 minute summer	11	11	37.372	0.383	187.1	0.5487	0.0000	SURCHARGED
15 minute summer	12	11	37.175	0.321	193.8	0.4589	0.0000	OK
15 minute summer	13	11	36.762	0.233	236.2	0.3338	0.0000	OK
600 minute winter	14	600	36.337	0.415	23.5	0.5941	0.0000	OK
600 minute winter	Basin 1	600	36.337	0.837	37.0	436.8599	0.0000	SURCHARGED
15 minute summer	Outfall	1	35.139	0.000	3.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	16.1	0.557	0.270	1.4358	
15 minute summer	2	1.001	3	88.6	2.306	0.952	0.3040	
600 minute winter	3	1.002	4	8.7	0.351	0.068	4.8211	
600 minute winter	5	1.004	Basin 1	14.1	0.654	0.072	5.7941	
600 minute winter	4	1.003	5	8.3	0.453	0.061	4.9552	
15 minute summer	6	2.000	7	59.9	1.888	0.699	0.3990	
15 minute summer	7	2.001	8	72.7	1.375	0.654	1.9693	
15 minute summer	8	2.002	9	69.7	1.188	0.626	0.5058	
15 minute summer	9	2.003	11	99.3	1.423	0.895	2.3409	
15 minute summer	10	3.000	11	48.6	1.221	0.935	0.4940	
15 minute summer	11	2.004	12	186.6	1.748	0.933	1.4237	
15 minute summer	12	2.005	13	192.4	2.254	0.950	2.7311	
15 minute summer	13	2.006	14	235.7	2.862	0.550	1.0980	
600 minute winter	14	2.007	Basin 1	23.4	1.166	0.067	5.5775	
600 minute winter	Basin 1	Hydro-Brake®	Outfall	3.9				566.3

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	37.164	0.075	14.8	0.1073	0.0000	OK
15 minute summer	2	10	36.568	0.207	82.2	0.2960	0.0000	OK
600 minute winter	3	585	36.247	0.302	7.9	0.4320	0.0000	OK
600 minute winter	5	585	36.247	0.614	14.0	0.8785	0.0000	SURCHARGED
600 minute winter	4	585	36.247	0.481	7.9	0.6881	0.0000	SURCHARGED
15 minute summer	6	10	38.220	0.145	54.2	0.2071	0.0000	OK
15 minute summer	7	10	37.917	0.173	65.6	0.2477	0.0000	OK
15 minute summer	8	11	37.611	0.218	64.9	0.3119	0.0000	OK
15 minute summer	9	11	37.552	0.231	93.1	0.3306	0.0000	OK
15 minute summer	10	10	37.442	0.329	44.3	0.4711	0.0000	SURCHARGED
15 minute summer	11	11	37.323	0.334	173.4	0.4783	0.0000	OK
15 minute summer	12	11	37.155	0.301	180.2	0.4303	0.0000	OK
15 minute summer	13	11	36.750	0.221	220.1	0.3164	0.0000	OK
600 minute winter	14	585	36.247	0.325	21.1	0.4649	0.0000	OK
600 minute winter	Basin 1	585	36.247	0.747	34.2	380.0176	0.0000	SURCHARGED
15 minute summer	Outfall	1	35.139	0.000	3.9	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	14.5	0.561	0.242	1.3683	
15 minute summer	2	1.001	3	80.3	2.323	0.863	0.2860	
600 minute winter	3	1.002	4	7.9	0.340	0.062	4.4886	
600 minute winter	5	1.004	Basin 1	13.2	0.644	0.068	5.7941	
600 minute winter	4	1.003	5	7.7	0.457	0.057	4.9552	
15 minute summer	6	2.000	7	53.9	1.799	0.630	0.3674	
15 minute summer	7	2.001	8	64.9	1.356	0.585	1.6848	
15 minute summer	8	2.002	9	64.6	1.179	0.581	0.4060	
15 minute summer	9	2.003	11	93.5	1.370	0.842	2.1383	
15 minute summer	10	3.000	11	43.4	1.091	0.836	0.4940	
15 minute summer	11	2.004	12	173.7	1.746	0.869	1.3414	
15 minute summer	12	2.005	13	180.7	2.225	0.892	2.5712	
15 minute summer	13	2.006	14	220.5	2.821	0.515	1.0401	
600 minute winter	14	2.007	Basin 1	21.1	1.143	0.060	5.0343	
600 minute winter	Basin 1	Hydro-Brake®	Outfall	3.9				506.9

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	1	10	37.181	0.092	21.4	0.1310	0.0000	OK
15 minute summer	2	11	36.968	0.607	119.2	0.8687	0.0000	SURCHARGED
720 minute winter	3	705	36.576	0.631	10.0	0.9033	0.0000	SURCHARGED
720 minute winter	5	705	36.576	0.943	16.6	1.3498	0.0000	SURCHARGED
720 minute winter	4	705	36.576	0.810	9.3	1.1594	0.0000	SURCHARGED
15 minute summer	6	11	38.843	0.768	78.5	1.0984	0.0000	SURCHARGED
15 minute summer	7	11	38.518	0.774	89.2	1.1083	0.0000	SURCHARGED
15 minute summer	8	12	38.273	0.880	84.8	1.2594	0.0000	SURCHARGED
15 minute summer	9	11	38.196	0.875	121.6	1.2522	0.0000	SURCHARGED
15 minute summer	10	11	37.952	0.839	64.3	1.2004	0.0000	SURCHARGED
15 minute summer	11	11	37.720	0.731	232.6	1.0464	0.0000	SURCHARGED
15 minute summer	12	11	37.422	0.568	240.5	0.8133	0.0000	SURCHARGED
15 minute summer	13	11	36.813	0.284	295.5	0.4068	0.0000	OK
720 minute winter	14	705	36.576	0.654	26.4	0.9362	0.0000	SURCHARGED

720 minute winter Basin 1 705 36.576 1.076 42.1 598.7426 0.0000 SURCHARGED

15 minute summer Outfall 1 35.139 0.000 3.9 0.0000 0.0000 OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	1	1.000	2	21.1	0.656	0.352	1.5093	
15 minute summer	2	1.001	3	112.4	2.827	1.208	0.3329	
720 minute winter	3	1.002	4	9.3	0.327	0.073	4.8211	
720 minute winter	5	1.004	Basin 1	16.4	0.653	0.085	5.7941	
720 minute winter	4	1.003	5	8.6	0.425	0.064	4.9552	
15 minute summer	6	2.000	7	73.1	1.939	0.854	0.4889	
15 minute summer	7	2.001	8	84.8	1.396	0.764	2.4732	
15 minute summer	8	2.002	9	86.8	1.232	0.780	0.5058	
15 minute summer	9	2.003	11	123.6	1.755	1.113	2.3409	
15 minute summer	10	3.000	11	60.1	1.511	1.157	0.4940	
15 minute summer	11	2.004	12	231.1	2.096	1.156	1.4908	
15 minute summer	12	2.005	13	238.4	2.278	1.176	3.1675	
15 minute summer	13	2.006	14	294.6	2.989	0.688	1.3054	
720 minute winter	14	2.007	Basin 1	25.7	1.166	0.073	5.6775	

720 minute winter Basin 1 Hydro-Brake® Outfall 3.9 761.6

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	999.9		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
N2 S1	0.094	5.00	36.538	1500	511779.365	130781.775	1.660
N2 S2			37.209	1500	511800.767	130783.318	2.368
N2 S3	0.061	5.00	36.744	1500	511846.070	130767.303	1.986
N2 S4	0.039	5.00	36.548	1500	511868.844	130755.353	1.835
N2 S6			35.960	1500	511907.603	130740.658	1.318
Outfall			35.200		511945.963	130729.318	0.627
Tank 1	0.056	5.00	36.500		511878.410	130739.852	1.286
Tank 2		5.00	37.200		511836.834	130764.465	2.100
N2 S5	0.023	5.00	36.341	1500	511882.346	130750.234	1.652

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	N2 S1	N2 S2	21.458	0.600	34.878	34.841	0.037	579.9	600	5.36	169.2
1.001	N2 S2	N2 S3	48.050	0.600	34.841	34.758	0.083	578.9	600	6.15	161.4
1.002	N2 S3	N2 S4	25.719	0.600	34.758	34.713	0.045	571.5	600	6.58	157.4
1.004	N2 S5	N2 S6	27.011	0.600	34.689	34.642	0.047	574.7	600	7.27	151.2
1.005	N2 S6	Outfall	40.001	0.600	34.642	34.573	0.069	579.7	600	7.93	145.7
3.000	Tank 1	N2 S5	11.103	0.600	35.214	34.989	0.225	49.3	300	5.08	172.0
2.000	Tank 2	N2 S3	9.662	0.600	35.100	35.058	0.042	230.1	300	5.16	171.2
1.003	N2 S4	N2 S5	14.440	0.600	34.713	34.689	0.024	601.7	600	6.82	155.1

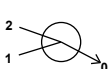
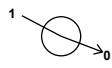
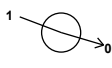
Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.004	283.8	57.5	1.060	1.768	0.094	0.0	182	0.793
1.001	1.005	284.1	54.8	1.768	1.386	0.094	0.0	177	0.783
1.002	1.011	285.9	88.2	1.386	1.235	0.155	0.0	228	0.895
1.004	1.008	285.1	149.2	1.052	0.718	0.273	0.0	308	1.020
1.005	1.004	283.9	143.7	0.718	0.027	0.273	0.0	302	1.007
3.000	2.243	158.6	34.8	0.986	1.052	0.056	0.0	95	1.811
2.000	1.032	73.0	0.0	1.800	1.386	0.000	0.0	0	0.000
1.003	0.985	278.6	108.7	1.235	1.052	0.194	0.0	260	0.927

Pipeline Schedule

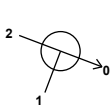
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	21.458	579.9	600	Circular	36.538	34.878	1.060	37.209	34.841	1.768
1.001	48.050	578.9	600	Circular	37.209	34.841	1.768	36.744	34.758	1.386
1.002	25.719	571.5	600	Circular	36.744	34.758	1.386	36.548	34.713	1.235
1.004	27.011	574.7	600	Circular	36.341	34.689	1.052	35.960	34.642	0.718
1.005	40.001	579.7	600	Circular	35.960	34.642	0.718	35.200	34.573	0.027
3.000	11.103	49.3	300	Circular	36.500	35.214	0.986	36.341	34.989	1.052
2.000	9.662	230.1	300	Circular	37.200	35.100	1.800	36.744	35.058	1.386
1.003	14.440	601.7	600	Circular	36.548	34.713	1.235	36.341	34.689	1.052

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	N2 S1	1500	Manhole	Adoptable	N2 S2	1500	Manhole	Adoptable
1.001	N2 S2	1500	Manhole	Adoptable	N2 S3	1500	Manhole	Adoptable
1.002	N2 S3	1500	Manhole	Adoptable	N2 S4	1500	Manhole	Adoptable
1.004	N2 S5	1500	Manhole	Adoptable	N2 S6	1500	Manhole	Adoptable
1.005	N2 S6	1500	Manhole	Adoptable	Outfall		Junction	
3.000	Tank 1		Junction		N2 S5	1500	Manhole	Adoptable
2.000	Tank 2		Junction		N2 S3	1500	Manhole	Adoptable
1.003	N2 S4	1500	Manhole	Adoptable	N2 S5	1500	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
N2 S1	511779.365	130781.775	36.538	1.660	1500				
						0	1.000	34.878	600
N2 S2	511800.767	130783.318	37.209	2.368	1500				
						0	1.001	34.841	600
N2 S3	511846.070	130767.303	36.744	1.986	1500				
						1	2.000	35.058	300
						2	1.001	34.758	600
						0	1.002	34.758	600
N2 S4	511868.844	130755.353	36.548	1.835	1500				
						1	1.002	34.713	600
						0	1.003	34.713	600
N2 S6	511907.603	130740.658	35.960	1.318	1500				
						1	1.004	34.642	600
						0	1.005	34.642	600
Outfall	511945.963	130729.318	35.200	0.627					
						1	1.005	34.573	600
Tank 1	511878.410	130739.852	36.500	1.286					
						0	3.000	35.214	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
Tank 2	511836.834	130764.465	37.200	2.100						
N2 S5	511882.346	130750.234	36.341	1.652	1500		0 1 2 0	2.000 3.000 1.003 1.004	35.100 34.989 34.689 34.689	300 300 600 600

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	10080	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
30	0	0	0
30	40	0	0
100	0	0	0
100	45	0	0

Node N2 S5 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	✓	Sump Available	✓
Invert Level (m)	34.689	Product Number	CTL-SHE-0063-2000-1300-2000
Design Depth (m)	1.300	Min Outlet Diameter (m)	0.075
Design Flow (l/s)	2.0	Min Node Diameter (mm)	1200

Node Tank 1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	35.214
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.90	Time to half empty (mins)	780

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	175.0	0.0	0.800	175.0	0.0	0.801	0.0	0.0

Node Tank 2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	35.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.90	Time to half empty (mins)	1050

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	123.0	0.0	0.800	123.0	0.0	0.801	0.0	0.0

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
240 minute summer	N2 S1	160	35.144	0.266	4.3	0.4698	0.0000	OK
240 minute summer	N2 S2	160	35.144	0.303	3.3	0.5352	0.0000	OK
240 minute summer	N2 S3	160	35.144	0.386	3.3	0.6821	0.0000	OK
240 minute summer	N2 S4	160	35.144	0.431	2.4	0.7617	0.0000	OK
15 minute summer	N2 S6	27	34.678	0.036	1.7	0.0637	0.0000	OK
15 minute summer	Outfall	28	34.599	0.026	1.7	0.0000	0.0000	OK
120 minute summer	Tank 1	72	35.237	0.023	3.6	3.6833	0.0000	OK
360 minute summer	Tank 2	272	35.140	0.040	2.3	4.4339	0.0000	OK
240 minute summer	N2 S5	160	35.144	0.455	2.7	0.8042	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
240 minute summer	N2 S1	1.000	N2 S2	3.3	0.306	0.012	2.8227	
240 minute summer	N2 S2	1.001	N2 S3	1.9	0.190	0.007	8.0294	
240 minute summer	N2 S3	1.002	N2 S4	1.5	0.189	0.005	5.2510	
240 minute summer	N2 S4	1.003	N2 S5	1.5	0.124	0.006	3.2206	
15 minute summer	N2 S6	1.005	Outfall	1.7	0.319	0.006	0.2179	14.1
120 minute summer	Tank 1	3.000	N2 S5	2.0	0.721	0.012	0.1808	
360 minute summer	Tank 2	2.000	N2 S3	-2.3	-0.291	-0.032	0.1021	
240 minute summer	N2 S5	Hydro-Brake®	N2 S6	1.7				

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.99%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
360 minute winter	N2 S1	352	35.467	0.588	6.1	1.0399	0.0000	OK
360 minute winter	N2 S2	352	35.467	0.626	5.9	1.1053	0.0000	SURCHARGED
360 minute winter	N2 S3	352	35.467	0.709	11.6	1.2519	0.0000	SURCHARGED
360 minute winter	N2 S4	352	35.467	0.754	4.8	1.3315	0.0000	SURCHARGED
15 minute summer	N2 S6	506	34.678	0.036	1.7	0.0637	0.0000	OK
15 minute summer	Outfall	507	34.599	0.026	1.7	0.0000	0.0000	OK
360 minute winter	Tank 1	352	35.467	0.253	7.9	39.7749	0.0000	OK
360 minute winter	Tank 2	352	35.467	0.367	10.4	40.5733	0.0000	SURCHARGED
360 minute winter	N2 S5	352	35.467	0.778	5.9	1.3739	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
360 minute winter	N2 S1	1.000	N2 S2	5.9	0.248	0.021	6.0304	
360 minute winter	N2 S2	1.001	N2 S3	5.9	0.203	0.021	13.5346	
360 minute winter	N2 S3	1.002	N2 S4	-4.0	0.186	-0.014	7.2445	
360 minute winter	N2 S4	1.003	N2 S5	4.4	0.123	0.016	4.0674	
15 minute summer	N2 S6	1.005	Outfall	1.7	0.317	0.006	0.2179	57.5
360 minute winter	Tank 1	3.000	N2 S5	-4.3	0.632	-0.027	0.7423	
360 minute winter	Tank 2	2.000	N2 S3	-10.4	-0.724	-0.142	0.6804	
360 minute winter	N2 S5	Hydro-Brake®	N2 S6	1.7				

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	N2 S1	472	35.682	0.804	6.7	1.4208	0.0000	SURCHARGED
480 minute winter	N2 S2	472	35.682	0.841	6.3	1.4862	0.0000	SURCHARGED
480 minute winter	N2 S3	472	35.682	0.924	10.0	1.6329	0.0000	SURCHARGED
480 minute winter	N2 S4	472	35.682	0.969	5.9	1.7124	0.0000	SURCHARGED
480 minute winter	N2 S6	472	34.679	0.037	1.8	0.0649	0.0000	OK
480 minute winter	Outfall	472	34.600	0.027	1.8	0.0000	0.0000	OK
480 minute winter	Tank 1	472	35.682	0.468	9.7	73.7247	0.0000	SURCHARGED
480 minute winter	Tank 2	472	35.682	0.582	8.4	64.4381	0.0000	SURCHARGED
480 minute winter	N2 S5	472	35.682	0.993	7.4	1.7548	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	N2 S1	1.000	N2 S2	6.3	0.254	0.022	6.0442	
480 minute winter	N2 S2	1.001	N2 S3	5.8	0.198	0.020	13.5346	
480 minute winter	N2 S3	1.002	N2 S4	-3.5	0.195	-0.012	7.2445	
480 minute winter	N2 S4	1.003	N2 S5	5.8	0.152	0.021	4.0674	
480 minute winter	N2 S6	1.005	Outfall	1.8	0.318	0.006	0.2253	223.4
480 minute winter	Tank 1	3.000	N2 S5	-5.7	0.590	-0.036	0.7819	
480 minute winter	Tank 2	2.000	N2 S3	-8.4	-0.500	-0.115	0.6804	
480 minute winter	N2 S5	Hydro-Brake®	N2 S6	1.8				

Results for 100 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute winter	N2 S1	472	35.599	0.721	6.0	1.2736	0.0000	SURCHARGED
480 minute winter	N2 S2	472	35.599	0.758	5.6	1.3390	0.0000	SURCHARGED
480 minute winter	N2 S3	472	35.599	0.841	9.5	1.4857	0.0000	SURCHARGED
480 minute winter	N2 S4	472	35.599	0.886	5.0	1.5652	0.0000	SURCHARGED
480 minute winter	N2 S6	472	34.678	0.036	1.7	0.0638	0.0000	OK
480 minute winter	Outfall	472	34.599	0.026	1.7	0.0000	0.0000	OK
480 minute winter	Tank 1	472	35.599	0.385	8.3	60.6060	0.0000	SURCHARGED
480 minute winter	Tank 2	472	35.599	0.499	8.6	55.2158	0.0000	SURCHARGED
480 minute winter	N2 S5	472	35.599	0.910	6.3	1.6076	0.0000	SURCHARGED

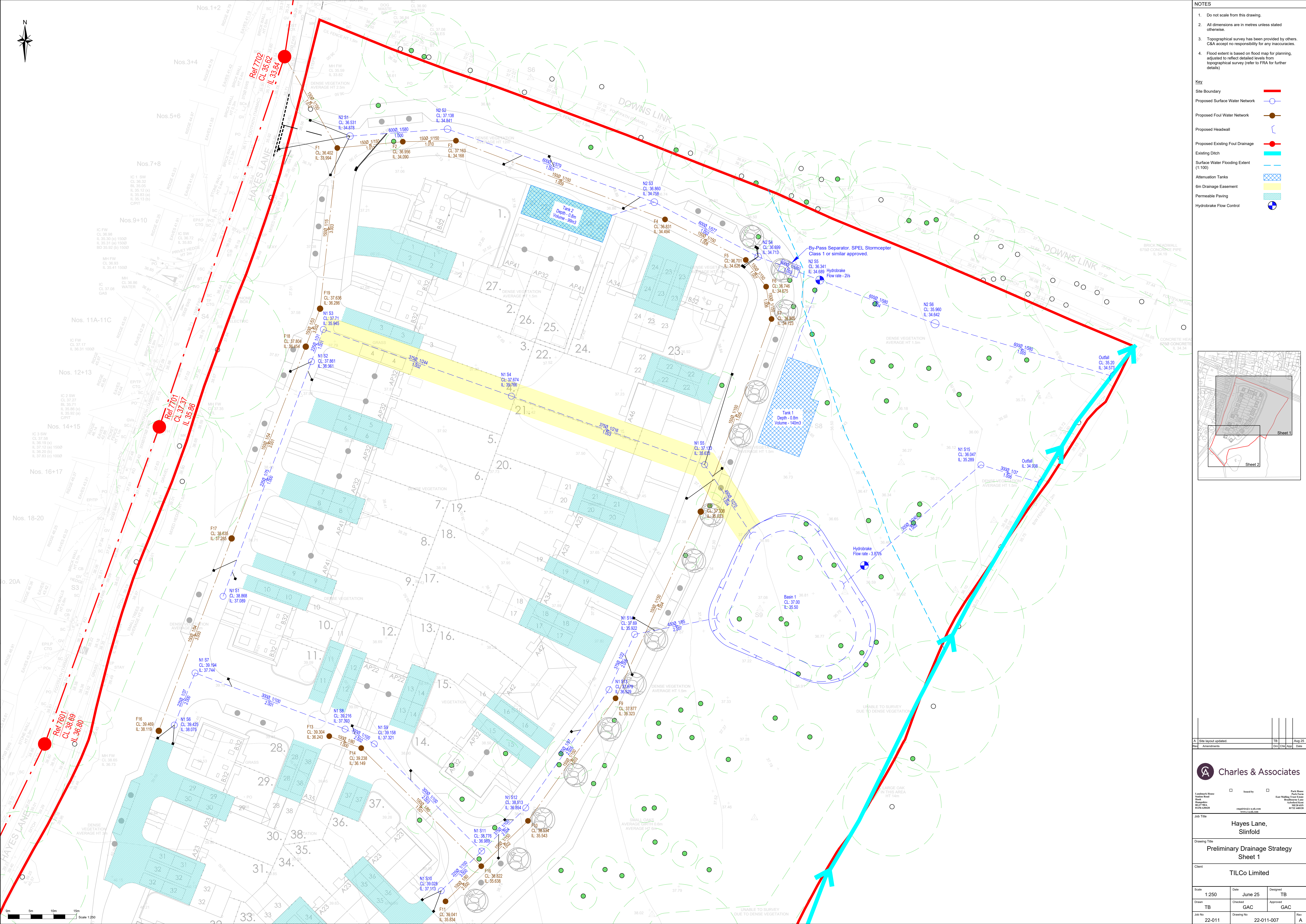
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
480 minute winter	N2 S1	1.000	N2 S2	5.6	0.248	0.020	6.0442	
480 minute winter	N2 S2	1.001	N2 S3	4.8	0.193	0.017	13.5346	
480 minute winter	N2 S3	1.002	N2 S4	-3.3	0.197	-0.012	7.2445	
480 minute winter	N2 S4	1.003	N2 S5	4.9	0.143	0.018	4.0674	
480 minute winter	N2 S6	1.005	Outfall	1.7	0.312	0.006	0.2190	199.3
480 minute winter	Tank 1	3.000	N2 S5	-4.7	0.609	-0.030	0.7819	
480 minute winter	Tank 2	2.000	N2 S3	-8.6	-0.512	-0.118	0.6804	
480 minute winter	N2 S5	Hydro-Brake®	N2 S6	1.7				

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.97%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
600 minute winter	N2 S1	585	35.928	1.050	7.3	1.8548	0.0000	SURCHARGED
600 minute winter	N2 S2	585	35.928	1.087	7.2	1.9205	0.0000	SURCHARGED
600 minute winter	N2 S3	585	35.929	1.171	11.8	2.0683	0.0000	SURCHARGED
600 minute winter	N2 S4	585	35.929	1.216	6.8	2.1482	0.0000	SURCHARGED
600 minute winter	N2 S6	585	34.680	0.038	2.0	0.0679	0.0000	OK
600 minute winter	Outfall	585	34.601	0.028	2.0	0.0000	0.0000	OK
600 minute winter	Tank 1	585	35.928	0.714	11.1	112.5225	0.0000	SURCHARGED
600 minute winter	Tank 2	585	35.929	0.829	7.8	88.6154	0.0000	SURCHARGED
600 minute winter	N2 S5	585	35.929	1.240	8.5	2.1907	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
600 minute winter	N2 S1	1.000	N2 S2	7.2	0.257	0.025	6.0442	
600 minute winter	N2 S2	1.001	N2 S3	7.1	0.188	0.025	13.5346	
600 minute winter	N2 S3	1.002	N2 S4	3.8	0.195	0.013	7.2445	
600 minute winter	N2 S4	1.003	N2 S5	6.7	0.096	0.024	4.0674	
600 minute winter	N2 S6	1.005	Outfall	2.0	0.327	0.007	0.2398	303.1
600 minute winter	Tank 1	3.000	N2 S5	-6.8	0.584	-0.043	0.7819	
600 minute winter	Tank 2	2.000	N2 S3	-7.8	-0.415	-0.107	0.6804	
600 minute winter	N2 S5	Hydro-Brake®	N2 S6	2.0				

Appendix F Drainage Drawings



NOTES

1. Do not scale from this drawing.
2. All dimensions are in metres unless stated otherwise.
3. Topographical survey has been provided by others. C&A accept no responsibility for any inaccuracies.
4. Flood extent is based on flood map for planning, adjusted to reflect detailed levels from topographical survey (refer to FRA for further details)

Key

- Site Boundary
- Proposed Surface Water Network
- Proposed Foul Water Network
- Proposed Headwall
- Proposed Existing Foul Drainage
- Existing Ditch
- Surface Water Flooding Extent (1:100)
- Attenuation Tanks
- 6m Drainage Easement
- Permeable Paving
- Hydrobrake Flow Control

Scale

1:250

Date: June 25

Designed: TB

Drawn: TB

Checked: GAC

Approved: GAC

Job No: 22-011

Drawing No: 22-011-007

Rev: A

Charles & Associates

Landmark House
Park Road
Slinfold
West Sussex
PO12 4JH

East Malling Road
Slinfold
West Sussex
PO12 4JH

01293 444444

www.c-a.co.uk

Hayes Lane, Slinfold

Preliminary Drainage Strategy Sheet 1

TILCo Limited