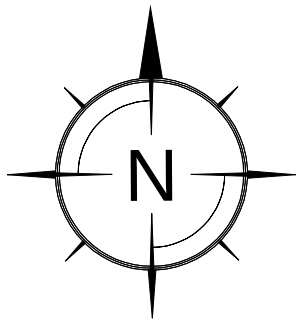


Appendix 5

**Proposed Site Drainage Layout, Maintenance Plans
and Calculations**



GENERAL NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.
3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

DRAINAGE NOTES:

1. All adoptable pipes, bends and junctions shall be vitrified clay to BS EN 295-1, with flexible joints and kitemark certified.
2. All Adoptable sewers shall be in strict accordance with the 7th edition of Sewers For Adoption. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class 2 bedding.
3. All private building drainage shall be constructed in strict accordance with BS EN 752:2008. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.
4. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN 3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN 3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN 3 concrete.
5. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.
6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
7. All svps shall have rodding access plates fitted at their bases (ground floor level).
8. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.
9. Any discrepancy between the drawing and site should be reported immediately to the Engineer.
10. All manhole and chamber sizes are given as a minimum to meet the 7th edition of Sewers For Adoption

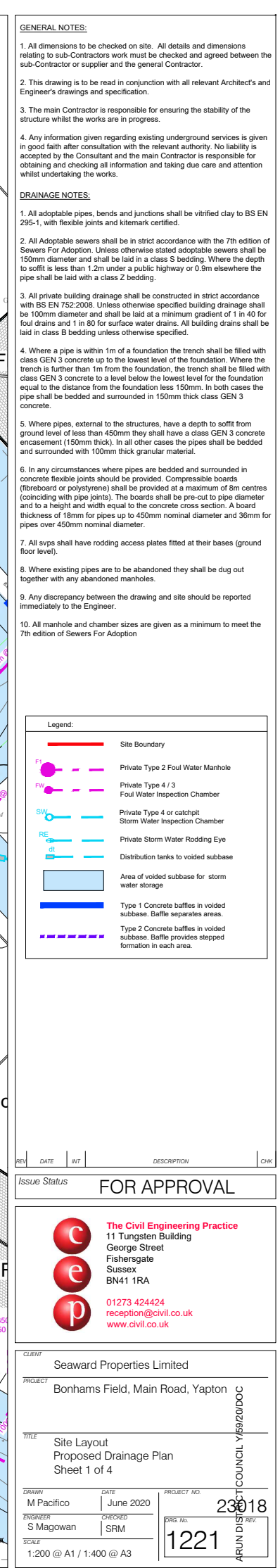
Legend:	
	Site Boundary
	Private Type 2 Foul Water Manhole
	Private Type 4 / 3 Foul Water Inspection Chamber
	Private Type 4 or catchpit Storm Water Inspection Chamber
	Private Storm Water Rodding Eye
	Distribution tanks to voided subbase
	Area of voided subbase for storm water storage
	Type 1 Concrete baffles in voided subbase. Baffle separates areas.
	Type 2 Concrete baffles in voided subbase. Baffle provides stepped formation in each area.

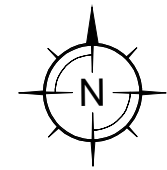
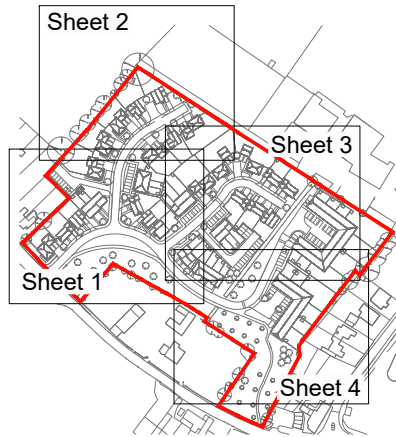
D	26.06.20	PJR	Voided subbase formation levels added. Cover and invert levels added. Drainage revised.	MK
C	20.04.20	MJP	Gullies removed from roads	MK
B	17.06.19	AJD	Site layout updated	SRM
A	06.06.19	MJP	Plots 26 and 27 updated	SRM
REV	DATE	INT	DESCRIPTION	CHK

Issue Status FOR APPROVAL

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CLIENT	Seaward Properties Limited				
PROJECT	Bonhams Field, Main Road, Yapton				
TITLE	Site Layout Proposed Drainage Plan				
DRAWN	M Pacifico	DATE	May 2019		
ENGINEER	S Magowan	CHECKED	SRM		
SCALE	1:500 @ A1 / 1:1000 @ A3		PROJECT NO.	23018	
			DWG. No.	1210	REV. D





- GENERAL NOTES:**
1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
 2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.
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- DRAINAGE NOTES:**
1. All adoptable pipes, bends and junctions shall be vitrified clay to BS EN 295-1, with flexible joints and kitemark certified.
 2. All Adoptable sewers shall be in strict accordance with the 7th edition of Sewers For Adoption. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class Z bedding.
 3. All private building drainage shall be constructed in strict accordance with BS EN 752:2008. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.
 4. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN 3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN 3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN 3 concrete.
 5. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.
 6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
 7. All svps shall have rodding access plates fitted at their bases (ground floor level).
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 9. Any discrepancy between the drawing and site should be reported immediately to the Engineer.
 10. All manhole and chamber sizes are given as a minimum to meet the 7th edition of Sewers For Adoption.

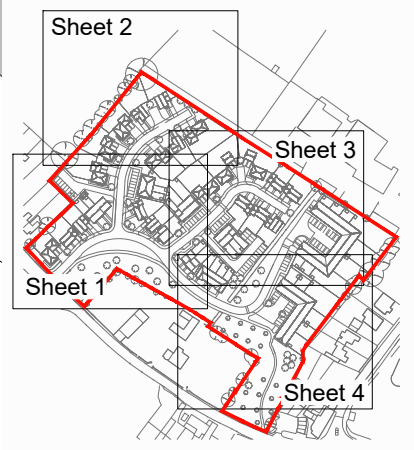
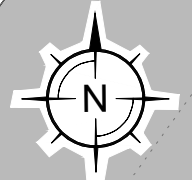
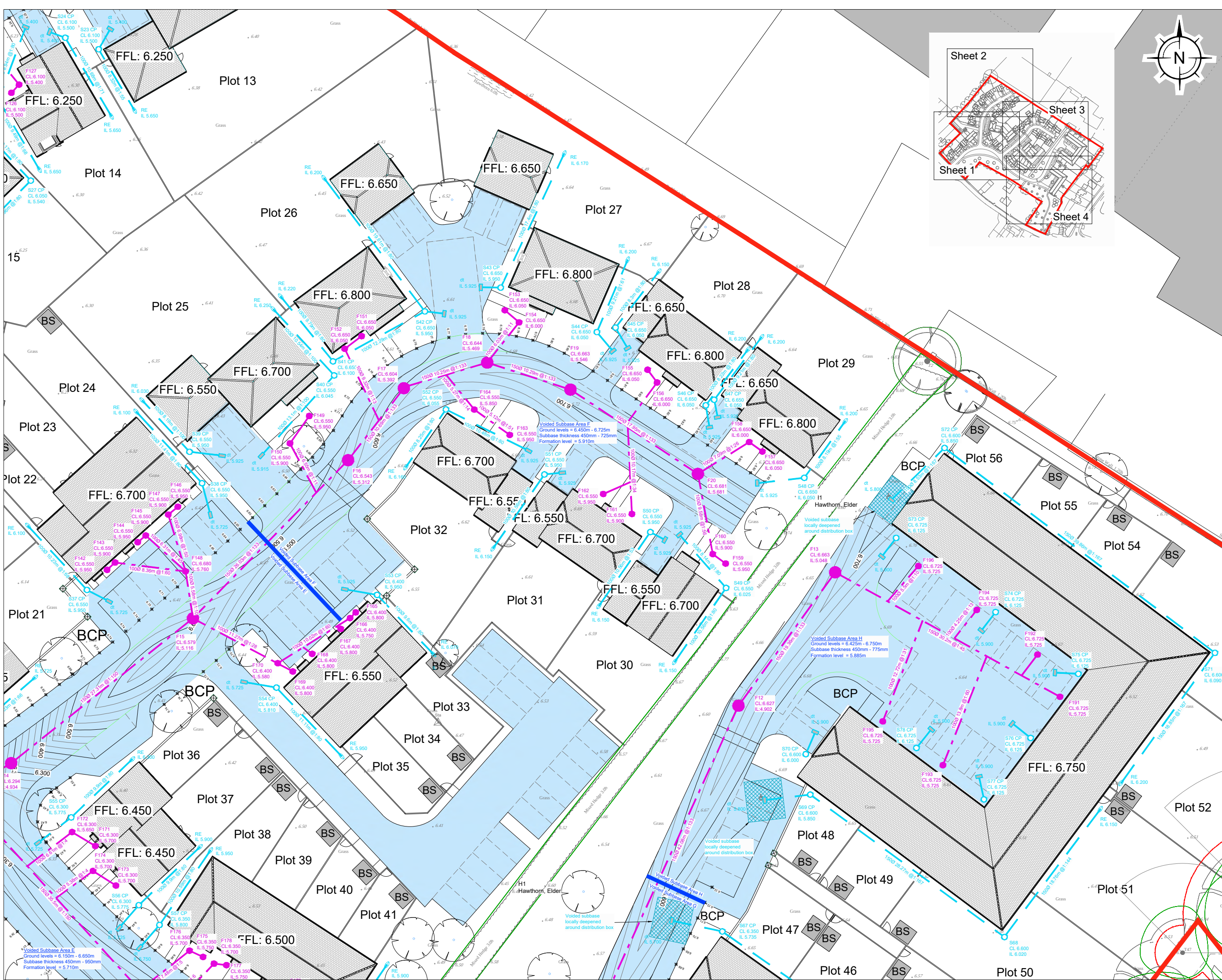
Legend:	
	Site Boundary
	Private Type 2 Foul Water Manhole
	Private Type 4 / 3 Foul Water Inspection Chamber
	Private Type 4 or catchpit Storm Water Inspection Chamber
	Private Storm Water Rodding Eye
	Distribution tanks to voided subbase
	Area of voided subbase for storm water storage
	Type 1 Concrete baffles in voided subbase. Baffle separates areas.
	Type 2 Concrete baffles in voided subbase. Baffle provides stepped formation in each area.

REV	DATE	INT	DESCRIPTION	CHK
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Issue Status **FOR APPROVAL**

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CLIENT	Seaward Properties Limited		
PROJECT	Bonhams Field, Main Road, Yapton		
TITLE	Site Layout Proposed Drainage Plan Sheet 2 of 4		
DRAWN	M Pacifico	DATE	June 2020
ENGINEER	S Magowan	CHECKED	SRM
SCALE	1:200 @ A1 / 1:400 @ A3		
PROJECT NO.	23018		
DWG NO.	1222		
REV	ARUN DISTRICT COUNCIL Y5920DOC		



- GENERAL NOTES:**
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 9. Any discrepancy between the drawing and site should be reported immediately to the Engineer.
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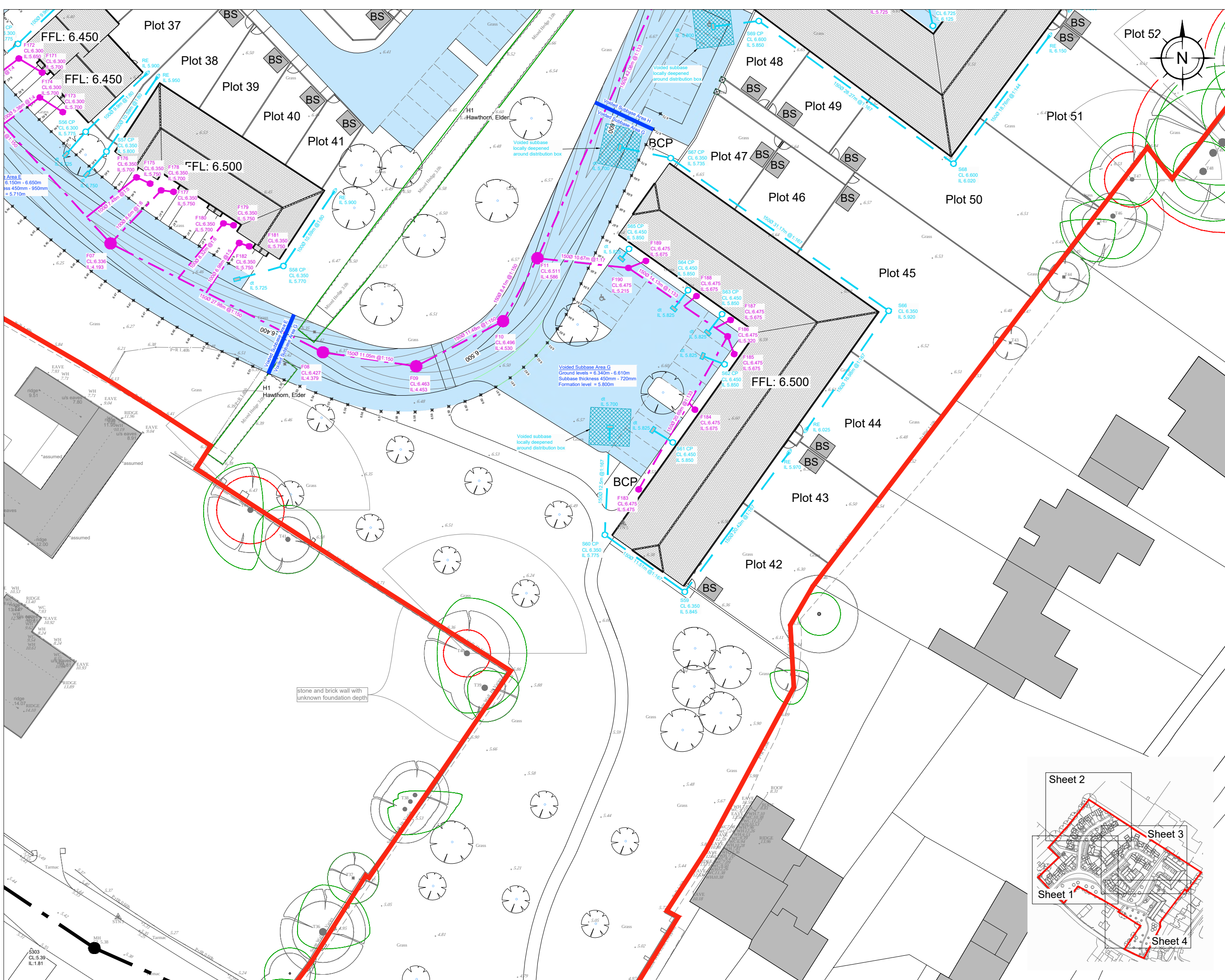
Legend:

- Site Boundary
- Private Type 2 Foul Water Manhole
- Private Type 4 / 3 Foul Water Inspection Chamber
- Private Storm Water Rodding Eye
- Distribution tanks to voided subbase
- Area of voided subbase for storm water storage
- Type 1 Concrete baffles in voided subbase. Baffle separates areas.
- Type 2 Concrete baffles in voided subbase. Baffle provides stepped formation in each area.

REV	DATE	INT	DESCRIPTION	CHK
Issue Status				
FOR APPROVAL				

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CLIENT	Seaward Properties Limited		
PROJECT	Bonhams Field, Main Road, Yapton		
TITLE	Site Layout Proposed Drainage Plan Sheet 3 of 4		
DRAWN	M Pacifico	DATE	June 2020
ENGINEER	S Magowan	CHECKED	SRM
SCALE	1:200 @ A1 / 1:400 @ A3		
PROJECT NO.	23018		
DWG NO.	1223		



- GENERAL NOTES:**
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Legend:

- Site Boundary
- Private Type 2 Foul Water Manhole
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REV	DATE	INT	DESCRIPTION	CHK
Issue Status				

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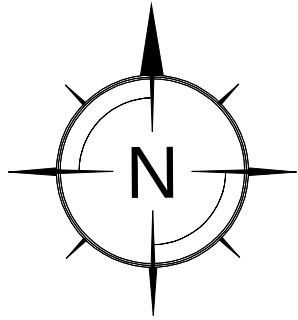
CLIENT		Seaward Properties Limited		PROJECT NO. 23018
PROJECT		Bonhams Field, Main Road, Yapton		
TITLE		Site Layout Proposed Drainage Plan Sheet 4 of 4		
DRAWN		M Pacifico		
DATE		June 2020		PROJECT NO. 23018
ENGINEER		S Magowan		
CHECKED		SRM		PROJECT NO. 23018
SCALE		1:200 @ A1 / 1:400 @ A3		
1224				PROJECT NO. 23018

FOUL WATER MANHOLE SCHEDULE - MAIN DRAINAGE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
F01	4.771	3.318	1.453	1200mmØ	D400	TYPE 2
F02	5.723	3.446	2.277	1200mmØ	D400	TYPE 2
F03	6.122	3.564	2.558	1200mmØ	D400	TYPE 2
F04	6.181	3.693	2.488	1200mmØ	D400	TYPE 2
F05	6.132	3.836	2.296	1200mmØ	D400	TYPE 2
F06	6.252	3.956	2.296	1200mmØ	D400	TYPE 2
F07	6.336	4.193	2.143	1200mmØ	D400	TYPE 2
F08	6.427	4.379	2.048	1200mmØ	D400	TYPE 2
F09	6.463	4.453	2.010	1200mmØ	D400	TYPE 2
F10	6.496	4.530	1.966	1200mmØ	D400	TYPE 2
F11	6.511	4.586	1.925	1200mmØ	D400	TYPE 2
F12	6.627	4.902	1.725	1200mmØ	D400	TYPE 2
F13	6.663	5.048	1.615	1200mmØ	D400	TYPE 2
F14	6.294	4.934	1.360	1200mmØ	D400	TYPE 2
F15	6.579	5.116	1.463	1200mmØ	D400	TYPE 2
F16	6.543	5.312	1.231	1200mmØ	D400	
F17	6.604	5.392	1.212	1200mmØ	D400	
F18	6.644	5.469	1.175	1200mmØ	D400	
F19	6.663	5.546	1.117	1200mmØ	D400	
F20	6.681	5.681	1.000	1200mmØ	D400	
F21	6.130	4.435	1.695	1200mmØ	D400	TYPE 2
F22	6.230	4.630	1.600	1200mmØ	D400	TYPE 2
F23	6.120	4.761	1.359	1200mmØ	D400	TYPE 2
F24	5.998	4.938	1.060	1200mmØ	D400	
F25	6.156	5.156	1.000	1200mmØ	D400	

FOUL WATER MANHOLE SCHEDULE - PRIVATE DRAINAGE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
F101	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F102	6.300	5.700	0.600	450mmØ	A15	TYPE 4
F103	5.950	5.350	0.600	450mmØ	A15	TYPE 4
F104	5.950	5.250	0.700	450mmØ	A15	TYPE 4
F105	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F106	6.150	5.450	0.700	450mmØ	A15	TYPE 4
F107	6.200	5.800	0.600	450mmØ	A15	TYPE 4
F108	6.200	5.500	0.700	450mmØ	A15	TYPE 4
F109	6.200	5.600	0.600	450mmØ	A15	TYPE 4
F110	6.200	5.500	0.700	450mmØ	A15	TYPE 4
F111	6.200	5.600	0.600	450mmØ	A15	TYPE 4
F112	6.200	5.500	0.700	450mmØ	A15	TYPE 4
F113	6.300	5.365	0.935	450mmØ	A15	TYPE 3
F114	6.150	5.500	0.650	450mmØ	A15	TYPE 4
F115	6.200	5.400	0.800	450mmØ	A15	TYPE 4
F116	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F117	6.150	5.450	0.700	450mmØ	A15	TYPE 4
F118	6.050	5.550	0.500	450mmØ	A15	TYPE 4
F119	6.050	5.450	0.600	450mmØ	A15	TYPE 4
F120	6.050	5.450	0.600	450mmØ	A15	TYPE 4
F121	6.050	5.350	0.700	450mmØ	A15	TYPE 4
F122	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F123	6.150	5.450	0.700	450mmØ	A15	TYPE 4
F124	6.250	5.650	0.600	450mmØ	A15	TYPE 4
F125	6.250	5.650	0.600	450mmØ	A15	TYPE 4
F126	6.100	5.500	0.600	450mmØ	A15	TYPE 4
F127	6.100	5.400	0.700	450mmØ	A15	TYPE 4
F128	6.050	5.450	0.600	450mmØ	A15	TYPE 4
F129	6.050	5.400	0.650	450mmØ	A15	TYPE 4
F130	6.150	5.500	0.650	450mmØ	A15	TYPE 4
F131	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F132	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F133	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F134	6.150	5.550	0.600	450mmØ	A15	TYPE 4
F135	6.150	5.325	0.825	450mmØ	A15	TYPE 3
F136	6.200	5.600	0.600	450mmØ	A15	TYPE 4
F137	6.200	5.500	0.700	450mmØ	A15	TYPE 4
F138	6.125	5.525	0.600	450mmØ	A15	TYPE 4
F139	6.125	5.425	0.700	450mmØ	A15	TYPE 4
F140	6.175	5.575	0.600	450mmØ	A15	TYPE 4

FOUL WATER MANHOLE SCHEDULE - PRIVATE DRAINAGE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
F141	6.175	5.500	0.675	450mmØ	A15	TYPE 4
F142	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F143	6.550	5.900	0.650	450mmØ	A15	TYPE 4
F144	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F145	6.550	5.900	0.650	450mmØ	A15	TYPE 4
F146	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F147	6.550	5.900	0.650	450mmØ	A15	TYPE 4
F148	6.680	5.760	0.920	450mmØ	A15	TYPE 3
F149	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F150	6.550	5.900	0.650	450mmØ	A15	TYPE 4
F151	6.650	6.050	0.600	450mmØ	A15	TYPE 4
F152	6.650	6.050	0.600	450mmØ	A15	TYPE 4
F153	6.650	6.050	0.600	450mmØ	A15	TYPE 4
F154	6.650	6.000	0.650	450mmØ	A15	TYPE 4
F155	6.650	6.050	0.600	450mmØ	A15	TYPE 4
F156	6.650	6.000	0.650	450mmØ	A15	TYPE 4
F157	6.650	6.050	0.600	450mmØ	A15	TYPE 4
F158	6.650	6.000	0.650	450mmØ	A15	TYPE 4
F159	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F160	6.550	5.900	0.650	450mmØ	A15	TYPE 4
F161	6.550	5.800	0.650	450mmØ	A15	TYPE 4
F162	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F163	6.550	5.950	0.600	450mmØ	A15	TYPE 4
F164	6.550	5.850	0.700	450mmØ	A15	TYPE 4
F165	6.400	5.800	0.600	450mmØ	A15	TYPE 4
F166	6.400	5.750	0.650	450mmØ	A15	TYPE 4
F167	6.400	5.800	0.600	450mmØ	A15	TYPE 4
F168	6.400	5.800	0.600	450mmØ	A15	TYPE 4
F169	6.400	5.800	0.600	450mmØ	A15	TYPE 4
F170	6.400	5.580	0.820	450mmØ	A15	TYPE 3
F171	6.300	5.700	0.600	450mmØ	A15	TYPE 4
F172	6.300	5.650	0.650	450mmØ	A15	TYPE 4
F173	6.300	5.700	0.600	450mmØ	A15	TYPE 4
F174	6.300	5.700	0.600	450mmØ	A15	TYPE 4
F175	6.350	5.750	0.600	450mmØ	A15	TYPE 4
F176	6.350	5.700	0.650	450mmØ	A15	TYPE 4
F177	6.350	5.750	0.600	450mmØ	A15	TYPE 4
F178	6.350	5.700	0.650	450mmØ	A15	TYPE 4
F179	6.350	5.750	0.600	450mmØ	A15	TYPE 4
F180	6.350	5.700	0.650	450mmØ	A15	TYPE 4
F181	6.350	5.750	0.600	450mmØ	A15	TYPE 4
F182	6.350	5.700	0.650	450mmØ	A15	TYPE 4
F183	6.475	5.475	1.000	450mmØ	A15	TYPE 3
F184	6.475	5.675	0.800	450mmØ	A15	TYPE 4
F185	6.475	5.675	0.800	450mmØ	A15	TYPE 4
F186	6.475	5.320	1.155	450mmØ	B125	TYPE 3
F187	6.475	5.675	0.800	450mmØ	A15	TYPE 4
F188	6.475	5.675	0.800	450mmØ	A15	TYPE 4
F189	6.475	5.675	0.800	450mmØ	A15	TYPE 4
F190	6.475	5.215	1.260	450mmØ	B125	TYPE 3
F191	6.725	5.725	1.000	450mmØ	B125	TYPE 3
F192	6.725	5.725	1.000	450mmØ	B125	TYPE 4
F193	6.725	5.725	1.000	450mmØ	A15	TYPE 4
F194	6.725	5.725	1.000	450mmØ	B125	TYPE 4
F195	6.725	5.725	1.000	450mmØ	A15	TYPE 4
F196	6.725	5.725	1.000	450mmØ	B125	TYPE 4

STORM WATER MANHOLE SCHEDULE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
S01	5.675	5.075	0.600	450mmØ	A15	Catchpit
S02	5.675	5.075	0.600	450mmØ	A15	Catchpit
S03	5.950	5.350	0.600	450mmØ	A15	Catchpit
S04	5.950	5.350	0.600	450mmØ	A15	Catchpit
S05	6.150	5.550	0.600	450mmØ	A15	Catchpit
S06	6.150	5.550	0.600	450mmØ	A15	Catchpit
S07	6.200	5.600	0.600	450mmØ	A15	Catchpit
S08	6.200	5.600	0.600	450mmØ	A15	Catchpit
S09	6.200	5.600	0.600	450mmØ	A15	Catchpit
S10	6.200	5.600	0.600	450mmØ	A15	Catchpit
S11	6.150	5.540	0.610	450mmØ	A15	Catchpit
S12	6.000	5.425	0.575	450mmØ	A15	Catchpit
S13	6.150	5.550	0.600	450mmØ	A15	Catchpit
S14	6.150	5.550	0.600	450mmØ	A15	Catchpit
S15	6.050	5.535	0.515	450mmØ	A15	Catchpit
S16	6.050	5.450	0.600	450mmØ	A15	Catchpit
S17	6.050	5.450	0.600	450mmØ	A15	Catchpit
S18	6.050	5.450	0.600	450mmØ	A15	Catchpit
S19	6.150	5.575	0.575	450mmØ	A15	Catchpit
S20	6.150	5.495	0.655	450mmØ	A15	Catchpit
S21	6.150	5.550	0.600	450mmØ	A15	Catchpit
S22	6.250	5.650	0.600	450mmØ	A15	Catchpit
S23	6.100	5.500	0.600	450mmØ	A15	Catchpit
S24	6.100	5.500	0.600	450mmØ	A15	Catchpit
S25	6.100	5.510	0.590	450mmØ	A15	Catchpit
S26	6.050	5.425	0.625	450mmØ	A15	Catchpit
S27	6.050	5.540	0.510	450mmØ	A15	Catchpit
S28	6.050	5.450	0.600	450mmØ	A15	Catchpit
S29	6.150	5.550	0.600	450mmØ	A15	Catchpit
S30	6.150	5.550	0.600	450mmØ	A15	Catchpit
S31	6.200	5.600	0.600	450mmØ	A15	Catchpit
S32	6.200	5.600	0.600	450mmØ	A15	Catchpit
S33	6.125	5.525	0.600	450mmØ	A15	Catchpit
S34	6.125	5.510	0.615	450mmØ	A15	Catchpit
S35	6.175	5.575	0.600	450mmØ	A15	Catchpit
S36	6.175	5.575	0.600	450mmØ	A15	Catchpit
S37	6.550	5.950	0.600	450mmØ	A15	Catchpit
S38	6.550	5.950	0.600	450mmØ	A15	Catchpit
S39	6.550	5.950	0.600	450mmØ	A15	Catchpit
S40	6.550	6.045	0.505	450mmØ	A15	Catchpit
S41	6.650	6.100	0.550	450mmØ	A15	Catchpit
S42	6.650	5.950	0.700	450mmØ	A15	Catchpit
S43	6.650	5.950	0.700	450mmØ	A15	Catchpit
S44	6.650	6.050	0.600	450mmØ	A15	Catchpit
S45	6.650	6.050	0.600	450mmØ	A15	Catchpit
S46	6.650	6.050	0.600	450mmØ	A15	Catchpit
S47	6.650	6.050	0.600	450mmØ	A15	Catchpit
S48	6.650	6.050	0.600	450mmØ	A15	Catchpit
S49	6.550	6.025	0.525	450mmØ	A15	Catchpit
S50	6.550	5.950	0.600	450mmØ	A15	Catchpit
S51	6.550	5.950	0.600	450mmØ	A15	Catchpit
S52	6.550	6.055	0.495	450mmØ	A15	Catchpit
S53	6.400	5.950	0.450	450mmØ	A15	Catchpit
S54	6.400	5.810	0.590	450mmØ	A15	Catchpit
S55	6.300	5.775	0.525	450mmØ	A15	Catchpit
S56	6.300	5.775	0.525	450mmØ	A15	Catchpit
S57	6.350	5.800	0.550	450mmØ	A15	Catchpit
S58	6.350	5.770	0.580	450mmØ	A15	Catchpit
S59	6.350	5.845	0.505	450mmØ	A15	TYPE 4
S60	6.350	5.775	0.575	450mmØ	A15	Catchpit
S61	6.450	5.850	0.600	450mmØ	A15	Catchpit
S62	6.450	5.850	0.600	450mmØ	A15	Catchpit
S63	6.450	5.850	0.600	450mmØ	A15	Catchpit
S64	6.450	5.850	0.600	450mmØ	A15	Catchpit
S65	6.450	5.850	0.600	450mmØ	A15	Catchpit
S66	6.350	5.920	0.430	450mmØ	A15	TYPE 4
S67	6.350	5.735	0.615	450mmØ	A15	Catchpit
S68	6.600	6.020	0.580	450mmØ	A15	Catchpit



GENERAL NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.
3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

DRAINAGE NOTES:

1. All adoptable pipes, bends and junctions shall be vitrified clay to BS EN 295-1, with flexible joints and kitemark certified.
2. All Adoptable sewers shall be in strict accordance with the 7th edition of Sewers For Adoption. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class 2 bedding.
3. All private building drainage shall be constructed in strict accordance with BS EN 752:2008. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.
4. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN 3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN 3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN 3 concrete.
5. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.
6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
7. All svps shall have rodding access plates fitted at their bases (ground floor level).
8. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.
9. Any discrepancy between the drawing and site should be reported immediately to the Engineer.
10. All manhole and chamber sizes are given as a minimum to meet the 7th edition of Sewers For Adoption

Storm Drainage Maintenance Legend:

To be maintained by the homeowner

- Private Type 4 Storm Water Inspection Chamber
- Private Storm Water Rodding Eye

To be maintained by estates management Company

- Type 4 Storm Water Inspection Chamber
- Property boundary
- Distribution Tanks to Subbase
- Hard paved areas including no dig area at site boundary

REV	DATE	INT	DESCRIPTION	CHK
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Issue Status **FOR APPROVAL**

The Civil Engineering Practice
11 Tungsten Building
George Street
Fishergate
Sussex
BN41 1RA
01273 424424
reception@civil.co.uk
www.civil.co.uk

CLIENT		Seaward Properties Limited	
PROJECT		Bonhams Field, Main Road, Yapton	
TITLE		Site Layout Proposed Drainage Ownership Plan	
DRAWN	DATE	PROJECT NO.	
P Reynolds	May 2020	23018	
ENGINEER	CHECKED	DWG. No.	REV.
S Magowan	SRM	2001	
SCALE			
1:500 @ A1 / :1000 @ A3			



The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 206 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>4.355</td><td>0.095</td><td>0.2</td><td>2.7</td><td>O K</td></tr><tr><td>30 min Summer</td><td>4.385</td><td>0.125</td><td>0.2</td><td>3.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>4.413</td><td>0.153</td><td>0.2</td><td>4.4</td><td>O K</td></tr><tr><td>120 min Summer</td><td>4.425</td><td>0.165</td><td>0.2</td><td>4.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>4.426</td><td>0.166</td><td>0.2</td><td>4.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>4.423</td><td>0.163</td><td>0.2</td><td>4.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>4.415</td><td>0.155</td><td>0.2</td><td>4.5</td><td>O K</td></tr><tr><td>480 min 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Summer</td><td>4.284</td><td>0.024</td><td>0.1</td><td>0.7</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>4.282</td><td>0.022</td><td>0.1</td><td>0.6</td><td>O K</td></tr><tr><td>15 min Winter</td><td>4.367</td><td>0.107</td><td>0.2</td><td>3.1</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>141.120</td><td>0.0</td><td>21</td></tr><tr><td>30 min Summer</td><td>94.920</td><td>0.0</td><td>36</td></tr><tr><td>60 min Summer</td><td>60.760</td><td>0.0</td><td>64</td></tr><tr><td>120 min Summer</td><td>36.120</td><td>0.0</td><td>122</td></tr><tr><td>180 min Summer</td><td>26.488</td><td>0.0</td><td>162</td></tr><tr><td>240 min Summer</td><td>21.140</td><td>0.0</td><td>192</td></tr><tr><td>360 min Summer</td><td>15.213</td><td>0.0</td><td>256</td></tr><tr><td>480 min Summer</td><td>12.015</td><td>0.0</td><td>324</td></tr><tr><td>600 min Summer</td><td>9.992</td><td>0.0</td><td>390</td></tr><tr><td>720 min Summer</td><td>8.587</td><td>0.0</td><td>458</td></tr><tr><td>960 min Summer</td><td>6.748</td><td>0.0</td><td>588</td></tr><tr><td>1440 min Summer</td><td>4.812</td><td>0.0</td><td>830</td></tr><tr><td>2160 min Summer</td><td>3.452</td><td>0.0</td><td>1168</td></tr><tr><td>2880 min Summer</td><td>2.745</td><td>0.0</td><td>1504</td></tr><tr><td>4320 min Summer</td><td>2.017</td><td>0.0</td><td>2244</td></tr><tr><td>5760 min Summer</td><td>1.642</td><td>0.0</td><td>2944</td></tr><tr><td>7200 min Summer</td><td>1.413</td><td>0.0</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>1.259</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.148</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>141.120</td><td>0.0</td><td>21</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	4.355	0.095	0.2	2.7	O K	30 min 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Summer	15.213	0.0	256	480 min Summer	12.015	0.0	324	600 min Summer	9.992	0.0	390	720 min Summer	8.587	0.0	458	960 min Summer	6.748	0.0	588	1440 min Summer	4.812	0.0	830	2160 min Summer	3.452	0.0	1168	2880 min Summer	2.745	0.0	1504	4320 min Summer	2.017	0.0	2244	5760 min Summer	1.642	0.0	2944	7200 min Summer	1.413	0.0	3680	8640 min Summer	1.259	0.0	4408	10080 min Summer	1.148	0.0	5144	15 min Winter	141.120	0.0	21
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The Civil Engineering Practice					Page 2	
11 Tungsten Building George Street Fishersgate BN41 1RA		23018 Bonham's Field, Yapton Catchment A				
Date 25/06/2020 File Catchment A.SRCX		Designed by MEK Checked by				
Innovyze		Source Control 2020.1				
<u>Summary of Results for 100 year Return Period (+40%)</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	4.401	0.141	0.2	4.1	O K	
60 min Winter	4.433	0.173	0.2	5.0	O K	
120 min Winter	4.449	0.189	0.2	5.4	O K	
180 min Winter	4.451	0.191	0.2	5.5	O K	
240 min Winter	4.448	0.188	0.2	5.4	O K	
360 min Winter	4.436	0.176	0.2	5.1	O K	
480 min Winter	4.423	0.163	0.2	4.7	O K	
600 min Winter	4.409	0.149	0.2	4.3	O K	
720 min Winter	4.396	0.136	0.2	3.9	O K	
960 min Winter	4.370	0.110	0.2	3.2	O K	
1440 min Winter	4.330	0.070	0.2	2.0	O K	
2160 min Winter	4.305	0.045	0.2	1.3	O K	
2880 min Winter	4.297	0.037	0.2	1.1	O K	
4320 min Winter	4.288	0.028	0.1	0.8	O K	
5760 min Winter	4.283	0.023	0.1	0.7	O K	
7200 min Winter	4.280	0.020	0.1	0.6	O K	
8640 min Winter	4.278	0.018	0.1	0.5	O K	
10080 min Winter	4.276	0.016	0.1	0.5	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	94.920	0.0	35			
60 min Winter	60.760	0.0	64			
120 min Winter	36.120	0.0	120			
180 min Winter	26.488	0.0	174			
240 min Winter	21.140	0.0	224			
360 min Winter	15.213	0.0	278			
480 min Winter	12.015	0.0	352			
600 min Winter	9.992	0.0	426			
720 min Winter	8.587	0.0	496			
960 min Winter	6.748	0.0	628			
1440 min Winter	4.812	0.0	866			
2160 min Winter	3.452	0.0	1172			
2880 min Winter	2.745	0.0	1532			
4320 min Winter	2.017	0.0	2252			
5760 min Winter	1.642	0.0	2992			
7200 min Winter	1.413	0.0	3680			
8640 min Winter	1.259	0.0	4416			
10080 min Winter	1.148	0.0	5112			
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The Civil Engineering Practice		Page 3																																				
11 Tungsten Building George Street Fishersgate BN41 1RA	23018 Bonham's Field, Yapton Catchment A																																					
Date 25/06/2020	Designed by MEK																																					
File Catchment A.SRCX	Checked by																																					
Innovyze		Source Control 2020.1																																				
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Rainfall Model	FEH																																					
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The Civil Engineering Practice		Page 4																
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Date 25/06/2020 File Catchment A.SRCX	Designed by MEK Checked by																	
Innovyze Source Control 2020.1																		
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The Civil Engineering Practice					Page 1
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Date 25/06/2020 File Catchment B.SRCX		Designed by MEK Checked by			
Innovyze		Source Control 2020.1			
Summary of Results for 100 year Return Period (+40%)					
Half Drain Time : 380 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	4.818	0.158	0.4	7.6	O K
30 min Summer	4.870	0.210	0.4	10.1	O K
60 min Summer	4.921	0.261	0.4	12.5	Flood Risk
120 min Summer	4.952	0.292	0.4	14.0	Flood Risk
180 min Summer	4.963	0.303	0.4	14.5	Flood Risk
240 min Summer	4.963	0.303	0.4	14.6	Flood Risk
360 min Summer	4.953	0.293	0.4	14.0	Flood Risk
480 min Summer	4.941	0.281	0.4	13.5	Flood Risk
600 min Summer	4.929	0.269	0.4	12.9	Flood Risk
720 min Summer	4.918	0.258	0.4	12.4	Flood Risk
960 min Summer	4.895	0.235	0.4	11.3	O K
1440 min Summer	4.856	0.196	0.4	9.4	O K
2160 min Summer	4.808	0.148	0.4	7.1	O K
2880 min Summer	4.772	0.112	0.4	5.4	O K
4320 min Summer	4.727	0.067	0.4	3.2	O K
5760 min Summer	4.709	0.049	0.4	2.4	O K
7200 min Summer	4.703	0.043	0.3	2.1	O K
8640 min Summer	4.699	0.039	0.3	1.9	O K
10080 min Summer	4.696	0.036	0.3	1.7	O K
15 min Winter	4.838	0.178	0.4	8.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	141.120	0.0	22		
30 min Summer	94.920	0.0	36		
60 min Summer	60.760	0.0	66		
120 min Summer	36.120	0.0	124		
180 min Summer	26.488	0.0	182		
240 min Summer	21.140	0.0	240		
360 min Summer	15.213	0.0	310		
480 min Summer	12.015	0.0	370		
600 min Summer	9.992	0.0	432		
720 min Summer	8.587	0.0	498		
960 min Summer	6.748	0.0	632		
1440 min Summer	4.812	0.0	898		
2160 min Summer	3.452	0.0	1280		
2880 min Summer	2.745	0.0	1644		
4320 min Summer	2.017	0.0	2296		
5760 min Summer	1.642	0.0	2944		
7200 min Summer	1.413	0.0	3672		
8640 min Summer	1.259	0.0	4408		
10080 min Summer	1.148	0.0	5144		
15 min Winter	141.120	0.0	22		
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The Civil Engineering Practice						Page 2
11 Tungsten Building George Street Fishersgate BN41 1RA			23018 Bonham's Field, Yapton Catchment B			
Date 25/06/2020 File Catchment B.SRCX			Designed by MEK Checked by			
Innovyze			Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>						
	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
	30 min Winter	4.896	0.236	0.4	11.3	O K
	60 min Winter	4.955	0.295	0.4	14.2	Flood Risk
	120 min Winter	4.992	0.332	0.4	15.9	Flood Risk
	180 min Winter	5.007	0.347	0.4	16.7	Flood Risk
	240 min Winter	5.011	0.351	0.4	16.8	Flood Risk
	360 min Winter	5.001	0.341	0.4	16.4	Flood Risk
	480 min Winter	4.985	0.325	0.4	15.6	Flood Risk
	600 min Winter	4.970	0.310	0.4	14.9	Flood Risk
	720 min Winter	4.955	0.295	0.4	14.1	Flood Risk
	960 min Winter	4.923	0.263	0.4	12.6	Flood Risk
	1440 min Winter	4.864	0.204	0.4	9.8	O K
	2160 min Winter	4.793	0.133	0.4	6.4	O K
	2880 min Winter	4.742	0.082	0.4	4.0	O K
	4320 min Winter	4.705	0.045	0.3	2.2	O K
	5760 min Winter	4.697	0.037	0.3	1.8	O K
	7200 min Winter	4.692	0.032	0.2	1.5	O K
	8640 min Winter	4.689	0.029	0.2	1.4	O K
	10080 min Winter	4.686	0.026	0.2	1.3	O K
	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
	30 min Winter	94.920	0.0	36		
	60 min Winter	60.760	0.0	64		
	120 min Winter	36.120	0.0	122		
	180 min Winter	26.488	0.0	180		
	240 min Winter	21.140	0.0	236		
	360 min Winter	15.213	0.0	344		
	480 min Winter	12.015	0.0	398		
	600 min Winter	9.992	0.0	466		
	720 min Winter	8.587	0.0	542		
	960 min Winter	6.748	0.0	690		
	1440 min Winter	4.812	0.0	970		
	2160 min Winter	3.452	0.0	1348		
	2880 min Winter	2.745	0.0	1676		
	4320 min Winter	2.017	0.0	2252		
	5760 min Winter	1.642	0.0	2992		
	7200 min Winter	1.413	0.0	3680		
	8640 min Winter	1.259	0.0	4416		
	10080 min Winter	1.148	0.0	5144		
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice		Page 4																
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The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summer</td><td>5.525</td><td>0.265</td><td>0.6</td><td>19.1</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>5.513</td><td>0.253</td><td>0.6</td><td>18.2</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>5.502</td><td>0.242</td><td>0.6</td><td>17.4</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>5.480</td><td>0.220</td><td>0.6</td><td>15.8</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>5.441</td><td>0.181</td><td>0.6</td><td>13.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>5.395</td><td>0.135</td><td>0.6</td><td>9.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>5.361</td><td>0.101</td><td>0.6</td><td>7.3</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>5.321</td><td>0.061</td><td>0.6</td><td>4.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>5.307</td><td>0.047</td><td>0.5</td><td>3.4</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>5.301</td><td>0.041</td><td>0.5</td><td>3.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>5.297</td><td>0.037</td><td>0.4</td><td>2.7</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>5.294</td><td>0.034</td><td>0.4</td><td>2.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>5.430</td><td>0.170</td><td>0.6</td><td>12.2</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>141.120</td><td>0.0</td><td>22</td></tr><tr><td>30 min Summer</td><td>94.920</td><td>0.0</td><td>36</td></tr><tr><td>60 min Summer</td><td>60.760</td><td>0.0</td><td>66</td></tr><tr><td>120 min Summer</td><td>36.120</td><td>0.0</td><td>124</td></tr><tr><td>180 min Summer</td><td>26.488</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>21.140</td><td>0.0</td><td>240</td></tr><tr><td>360 min Summer</td><td>15.213</td><td>0.0</td><td>304</td></tr><tr><td>480 min Summer</td><td>12.015</td><td>0.0</td><td>362</td></tr><tr><td>600 min Summer</td><td>9.992</td><td>0.0</td><td>426</td></tr><tr><td>720 min Summer</td><td>8.587</td><td>0.0</td><td>494</td></tr><tr><td>960 min Summer</td><td>6.748</td><td>0.0</td><td>628</td></tr><tr><td>1440 min Summer</td><td>4.812</td><td>0.0</td><td>894</td></tr><tr><td>2160 min Summer</td><td>3.452</td><td>0.0</td><td>1272</td></tr><tr><td>2880 min Summer</td><td>2.745</td><td>0.0</td><td>1620</td></tr><tr><td>4320 min Summer</td><td>2.017</td><td>0.0</td><td>2292</td></tr><tr><td>5760 min Summer</td><td>1.642</td><td>0.0</td><td>2944</td></tr><tr><td>7200 min Summer</td><td>1.413</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.259</td><td>0.0</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.148</td><td>0.0</td><td>5144</td></tr><tr><td>15 min Winter</td><td>141.120</td><td>0.0</td><td>22</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	5.411	0.151	0.6	10.9	O K	30 min Summer	5.460	0.200	0.6	14.4	O K	60 min Summer	5.508	0.248	0.6	17.9	Flood Risk	120 min Summer	5.537	0.277	0.6	20.0	Flood Risk	180 min Summer	5.547	0.287	0.6	20.6	Flood Risk	240 min Summer	5.547	0.287	0.6	20.7	Flood Risk	360 min Summer	5.536	0.276	0.6	19.9	Flood Risk	480 min Summer	5.525	0.265	0.6	19.1	Flood Risk	600 min Summer	5.513	0.253	0.6	18.2	Flood Risk	720 min Summer	5.502	0.242	0.6	17.4	Flood Risk	960 min Summer	5.480	0.220	0.6	15.8	O K	1440 min Summer	5.441	0.181	0.6	13.1	O K	2160 min Summer	5.395	0.135	0.6	9.8	O K	2880 min Summer	5.361	0.101	0.6	7.3	O K	4320 min Summer	5.321	0.061	0.6	4.4	O K	5760 min Summer	5.307	0.047	0.5	3.4	O K	7200 min Summer	5.301	0.041	0.5	3.0	O K	8640 min Summer	5.297	0.037	0.4	2.7	O K	10080 min Summer	5.294	0.034	0.4	2.5	O K	15 min Winter	5.430	0.170	0.6	12.2	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.120	0.0	22	30 min Summer	94.920	0.0	36	60 min Summer	60.760	0.0	66	120 min Summer	36.120	0.0	124	180 min Summer	26.488	0.0	182	240 min Summer	21.140	0.0	240	360 min Summer	15.213	0.0	304	480 min Summer	12.015	0.0	362	600 min Summer	9.992	0.0	426	720 min Summer	8.587	0.0	494	960 min Summer	6.748	0.0	628	1440 min Summer	4.812	0.0	894	2160 min Summer	3.452	0.0	1272	2880 min Summer	2.745	0.0	1620	4320 min Summer	2.017	0.0	2292	5760 min Summer	1.642	0.0	2944	7200 min Summer	1.413	0.0	3672	8640 min Summer	1.259	0.0	4408	10080 min Summer	1.148	0.0	5144	15 min Winter	141.120	0.0	22
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The Civil Engineering Practice					Page 2
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Date 25/06/2020 File Catchment C.SRCX		Designed by MEK Checked by			
Innovyze		Source Control 2020.1			
Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.485	0.225	0.6	16.2	O K
60 min Winter	5.541	0.281	0.6	20.2	Flood Risk
120 min Winter	5.576	0.316	0.6	22.7	Flood Risk
180 min Winter	5.589	0.329	0.6	23.7	Flood Risk
240 min Winter	5.592	0.332	0.6	23.9	Flood Risk
360 min Winter	5.581	0.321	0.6	23.1	Flood Risk
480 min Winter	5.565	0.305	0.6	22.0	Flood Risk
600 min Winter	5.551	0.291	0.6	20.9	Flood Risk
720 min Winter	5.535	0.275	0.6	19.8	Flood Risk
960 min Winter	5.504	0.244	0.6	17.6	Flood Risk
1440 min Winter	5.447	0.187	0.6	13.4	O K
2160 min Winter	5.378	0.118	0.6	8.5	O K
2880 min Winter	5.332	0.072	0.6	5.2	O K
4320 min Winter	5.303	0.043	0.5	3.1	O K
5760 min Winter	5.296	0.036	0.4	2.6	O K
7200 min Winter	5.291	0.031	0.4	2.2	O K
8640 min Winter	5.288	0.028	0.3	2.0	O K
10080 min Winter	5.285	0.025	0.3	1.8	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.920	0.0	36		
60 min Winter	60.760	0.0	64		
120 min Winter	36.120	0.0	122		
180 min Winter	26.488	0.0	178		
240 min Winter	21.140	0.0	236		
360 min Winter	15.213	0.0	342		
480 min Winter	12.015	0.0	388		
600 min Winter	9.992	0.0	462		
720 min Winter	8.587	0.0	538		
960 min Winter	6.748	0.0	686		
1440 min Winter	4.812	0.0	966		
2160 min Winter	3.452	0.0	1340		
2880 min Winter	2.745	0.0	1648		
4320 min Winter	2.017	0.0	2252		
5760 min Winter	1.642	0.0	2944		
7200 min Winter	1.413	0.0	3680		
8640 min Winter	1.259	0.0	4368		
10080 min Winter	1.148	0.0	5136		
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice		Page 4																
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The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summer</td><td>5.796</td><td>0.496</td><td>2.1</td><td>238.0</td><td>Flood Risk</td></tr><tr><td>600 min Summer</td><td>5.793</td><td>0.493</td><td>2.1</td><td>236.4</td><td>Flood Risk</td></tr><tr><td>720 min Summer</td><td>5.785</td><td>0.485</td><td>2.1</td><td>232.9</td><td>Flood Risk</td></tr><tr><td>960 min Summer</td><td>5.765</td><td>0.465</td><td>2.1</td><td>223.4</td><td>Flood Risk</td></tr><tr><td>1440 min Summer</td><td>5.732</td><td>0.432</td><td>2.1</td><td>207.6</td><td>Flood Risk</td></tr><tr><td>2160 min Summer</td><td>5.694</td><td>0.394</td><td>2.1</td><td>189.0</td><td>Flood Risk</td></tr><tr><td>2880 min Summer</td><td>5.662</td><td>0.362</td><td>2.1</td><td>173.9</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>5.613</td><td>0.313</td><td>2.1</td><td>150.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>5.572</td><td>0.272</td><td>2.1</td><td>130.8</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>5.539</td><td>0.239</td><td>2.1</td><td>114.9</td><td>O 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Summer</td><td>12.015</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>9.992</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>8.587</td><td>0.0</td><td>720</td></tr><tr><td>960 min Summer</td><td>6.748</td><td>0.0</td><td>858</td></tr><tr><td>1440 min Summer</td><td>4.812</td><td>0.0</td><td>1086</td></tr><tr><td>2160 min Summer</td><td>3.452</td><td>0.0</td><td>1476</td></tr><tr><td>2880 min Summer</td><td>2.745</td><td>0.0</td><td>1880</td></tr><tr><td>4320 min Summer</td><td>2.017</td><td>0.0</td><td>2684</td></tr><tr><td>5760 min Summer</td><td>1.642</td><td>0.0</td><td>3464</td></tr><tr><td>7200 min Summer</td><td>1.413</td><td>0.0</td><td>4248</td></tr><tr><td>8640 min Summer</td><td>1.259</td><td>0.0</td><td>5016</td></tr><tr><td>10080 min Summer</td><td>1.148</td><td>0.0</td><td>5744</td></tr><tr><td>15 min Winter</td><td>141.120</td><td>0.0</td><td>22</td></tr></tbody></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	5.518	0.218	2.1	104.8	O K	30 min Summer	5.592	0.292	2.1	140.2	O K	60 min Summer	5.669	0.369	2.1	177.2	O K	120 min Summer	5.728	0.428	2.1	205.5	Flood Risk	180 min Summer	5.760	0.460	2.1	220.7	Flood Risk	240 min Summer	5.778	0.478	2.1	229.4	Flood Risk	360 min Summer	5.793	0.493	2.1	236.5	Flood Risk	480 min Summer	5.796	0.496	2.1	238.0	Flood Risk	600 min Summer	5.793	0.493	2.1	236.4	Flood Risk	720 min Summer	5.785	0.485	2.1	232.9	Flood Risk	960 min Summer	5.765	0.465	2.1	223.4	Flood Risk	1440 min Summer	5.732	0.432	2.1	207.6	Flood Risk	2160 min Summer	5.694	0.394	2.1	189.0	Flood Risk	2880 min Summer	5.662	0.362	2.1	173.9	O K	4320 min Summer	5.613	0.313	2.1	150.0	O K	5760 min Summer	5.572	0.272	2.1	130.8	O K	7200 min Summer	5.539	0.239	2.1	114.9	O K	8640 min Summer	5.512	0.212	2.1	101.5	O K	10080 min Summer	5.488	0.188	2.1	90.3	O K	15 min Winter	5.545	0.245	2.1	117.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.120	0.0	23	30 min Summer	94.920	0.0	37	60 min Summer	60.760	0.0	66	120 min Summer	36.120	0.0	126	180 min Summer	26.488	0.0	186	240 min Summer	21.140	0.0	246	360 min Summer	15.213	0.0	364	480 min Summer	12.015	0.0	482	600 min Summer	9.992	0.0	602	720 min Summer	8.587	0.0	720	960 min Summer	6.748	0.0	858	1440 min Summer	4.812	0.0	1086	2160 min Summer	3.452	0.0	1476	2880 min Summer	2.745	0.0	1880	4320 min Summer	2.017	0.0	2684	5760 min Summer	1.642	0.0	3464	7200 min Summer	1.413	0.0	4248	8640 min Summer	1.259	0.0	5016	10080 min Summer	1.148	0.0	5744	15 min Winter	141.120	0.0	22
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The Civil Engineering Practice					Page 2
11 Tungsten Building George Street Fishersgate BN41 1RA		23018 Bonham's Field, Yapton Catchment D			
Date 25/06/2020 File Catchment D.SRCX		Designed by MEK Checked by			
Innovyze		Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	5.628	0.328	2.1	157.4	O K
60 min Winter	5.715	0.415	2.1	199.3	Flood Risk
120 min Winter	5.783	0.483	2.1	231.8	Flood Risk
180 min Winter	5.820	0.520	2.1	249.7	Flood Risk
240 min Winter	5.842	0.542	2.1	260.4	Flood Risk
360 min Winter	5.862	0.562	2.1	270.0	Flood Risk
480 min Winter	5.869	0.569	2.1	273.3	Flood Risk
600 min Winter	5.869	0.569	2.1	273.2	Flood Risk
720 min Winter	5.864	0.564	2.1	270.9	Flood Risk
960 min Winter	5.847	0.547	2.1	262.5	Flood Risk
1440 min Winter	5.804	0.504	2.1	241.9	Flood Risk
2160 min Winter	5.753	0.453	2.1	217.2	Flood Risk
2880 min Winter	5.706	0.406	2.1	194.9	Flood Risk
4320 min Winter	5.627	0.327	2.1	157.2	O K
5760 min Winter	5.562	0.262	2.1	125.8	O K
7200 min Winter	5.508	0.208	2.1	99.8	O K
8640 min Winter	5.463	0.163	2.1	78.3	O K
10080 min Winter	5.426	0.126	2.1	60.6	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.920	0.0	37		
60 min Winter	60.760	0.0	66		
120 min Winter	36.120	0.0	124		
180 min Winter	26.488	0.0	182		
240 min Winter	21.140	0.0	242		
360 min Winter	15.213	0.0	358		
480 min Winter	12.015	0.0	472		
600 min Winter	9.992	0.0	588		
720 min Winter	8.587	0.0	700		
960 min Winter	6.748	0.0	918		
1440 min Winter	4.812	0.0	1168		
2160 min Winter	3.452	0.0	1608		
2880 min Winter	2.745	0.0	2052		
4320 min Winter	2.017	0.0	2904		
5760 min Winter	1.642	0.0	3744		
7200 min Winter	1.413	0.0	4472		
8640 min Winter	1.259	0.0	5192		
10080 min Winter	1.148	0.0	5944		
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice		Page 4																
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<u>Model Details</u> Storage is Online Cover Level (m) 5.970 <u>Infiltration Blanket Structure</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00720</td> <td>Diameter/Width (m)</td> <td>50.0</td> </tr> <tr> <td>Safety Factor</td> <td>1.5</td> <td>Length (m)</td> <td>32.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.580</td> </tr> <tr> <td>Invert Level (m)</td> <td>5.300</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00720	Diameter/Width (m)	50.0	Safety Factor	1.5	Length (m)	32.0	Porosity	0.30	Cap Volume Depth (m)	0.580	Invert Level (m)	5.300		
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The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summer</td><td>5.884</td><td>0.174</td><td>4.5</td><td>89.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>5.873</td><td>0.163</td><td>4.5</td><td>83.3</td><td>O K</td></tr><tr><td>720 min Summer</td><td>5.863</td><td>0.153</td><td>4.5</td><td>77.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>5.842</td><td>0.132</td><td>4.5</td><td>67.5</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>5.809</td><td>0.099</td><td>4.5</td><td>50.6</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>5.776</td><td>0.066</td><td>4.5</td><td>33.8</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>5.760</td><td>0.050</td><td>4.5</td><td>25.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>5.749</td><td>0.039</td><td>3.5</td><td>19.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>5.742</td><td>0.032</td><td>2.9</td><td>16.5</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>5.738</td><td>0.028</td><td>2.6</td><td>14.5</td><td>O K</td></tr><tr><td>8640 min 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Summer	5.858	0.148	4.5	75.6	O K	60 min Summer	5.892	0.182	4.5	92.7	O K	120 min Summer	5.907	0.197	4.5	100.5	O K	180 min Summer	5.908	0.198	4.5	101.1	O K	240 min Summer	5.905	0.195	4.5	99.6	O K	360 min Summer	5.895	0.185	4.5	94.5	O K	480 min Summer	5.884	0.174	4.5	89.0	O K	600 min Summer	5.873	0.163	4.5	83.3	O K	720 min Summer	5.863	0.153	4.5	77.8	O K	960 min Summer	5.842	0.132	4.5	67.5	O K	1440 min Summer	5.809	0.099	4.5	50.6	O K	2160 min Summer	5.776	0.066	4.5	33.8	O K	2880 min Summer	5.760	0.050	4.5	25.4	O K	4320 min Summer	5.749	0.039	3.5	19.7	O K	5760 min Summer	5.742	0.032	2.9	16.5	O K	7200 min Summer	5.738	0.028	2.6	14.5	O K	8640 min Summer	5.736	0.026	2.3	13.1	O K	10080 min Summer	5.734	0.024	2.2	12.0	O K	15 min Winter	5.836	0.126	4.5	64.5	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.120	0.0	21	30 min Summer	94.920	0.0	36	60 min Summer	60.760	0.0	64	120 min Summer	36.120	0.0	122	180 min Summer	26.488	0.0	172	240 min Summer	21.140	0.0	198	360 min Summer	15.213	0.0	260	480 min Summer	12.015	0.0	328	600 min Summer	9.992	0.0	394	720 min Summer	8.587	0.0	462	960 min Summer	6.748	0.0	592	1440 min Summer	4.812	0.0	840	2160 min Summer	3.452	0.0	1188	2880 min Summer	2.745	0.0	1500	4320 min Summer	2.017	0.0	2212	5760 min Summer	1.642	0.0	2944	7200 min Summer	1.413	0.0	3672	8640 min Summer	1.259	0.0	4408	10080 min Summer	1.148	0.0	5136	15 min Winter	141.120	0.0	21
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The Civil Engineering Practice					Page 2	
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Innovyze		Source Control 2020.1				
Summary of Results for 100 year Return Period (+40%)						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	5.877	0.167	4.5	85.3	O K	
60 min Winter	5.916	0.206	4.5	105.1	O K	
120 min Winter	5.936	0.226	4.5	115.2	O K	
180 min Winter	5.940	0.230	4.5	117.1	O K	
240 min Winter	5.936	0.226	4.5	115.1	O K	
360 min Winter	5.922	0.212	4.5	108.0	O K	
480 min Winter	5.907	0.197	4.5	100.3	O K	
600 min Winter	5.891	0.181	4.5	92.2	O K	
720 min Winter	5.875	0.165	4.5	84.1	O K	
960 min Winter	5.845	0.135	4.5	68.8	O K	
1440 min Winter	5.796	0.086	4.5	44.1	O K	
2160 min Winter	5.759	0.049	4.4	24.9	O K	
2880 min Winter	5.750	0.040	3.6	20.2	O K	
4320 min Winter	5.740	0.030	2.7	15.1	O K	
5760 min Winter	5.734	0.024	2.2	12.5	O K	
7200 min Winter	5.731	0.021	1.9	10.7	O K	
8640 min Winter	5.729	0.019	1.7	9.6	O K	
10080 min Winter	5.727	0.017	1.6	8.7	O K	
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)			
30 min Winter	94.920	0.0	35			
60 min Winter	60.760	0.0	64			
120 min Winter	36.120	0.0	120			
180 min Winter	26.488	0.0	176			
240 min Winter	21.140	0.0	228			
360 min Winter	15.213	0.0	282			
480 min Winter	12.015	0.0	356			
600 min Winter	9.992	0.0	430			
720 min Winter	8.587	0.0	502			
960 min Winter	6.748	0.0	638			
1440 min Winter	4.812	0.0	880			
2160 min Winter	3.452	0.0	1168			
2880 min Winter	2.745	0.0	1528			
4320 min Winter	2.017	0.0	2248			
5760 min Winter	1.642	0.0	2992			
7200 min Winter	1.413	0.0	3672			
8640 min Winter	1.259	0.0	4416			
10080 min Winter	1.148	0.0	5216			
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice		Page 4																
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The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summer</td><td>9.992</td><td>0.0</td><td>386</td></tr><tr><td>720 min Summer</td><td>8.587</td><td>0.0</td><td>452</td></tr><tr><td>960 min Summer</td><td>6.748</td><td>0.0</td><td>580</td></tr><tr><td>1440 min Summer</td><td>4.812</td><td>0.0</td><td>822</td></tr><tr><td>2160 min Summer</td><td>3.452</td><td>0.0</td><td>1148</td></tr><tr><td>2880 min Summer</td><td>2.745</td><td>0.0</td><td>1476</td></tr><tr><td>4320 min Summer</td><td>2.017</td><td>0.0</td><td>2208</td></tr><tr><td>5760 min Summer</td><td>1.642</td><td>0.0</td><td>2936</td></tr><tr><td>7200 min Summer</td><td>1.413</td><td>0.0</td><td>3672</td></tr><tr><td>8640 min Summer</td><td>1.259</td><td>0.0</td><td>4400</td></tr><tr><td>10080 min Summer</td><td>1.148</td><td>0.0</td><td>5136</td></tr><tr><td>15 min Winter</td><td>141.120</td><td>0.0</td><td>21</td></tr></table>						Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	6.121	0.161	4.3	46.5	O K	30 min Summer	6.172	0.212	4.3	61.0	O K	60 min Summer	6.217	0.257	4.3	74.0	Flood Risk	120 min Summer	6.233	0.273	4.3	78.5	Flood Risk	180 min Summer	6.230	0.270	4.3	77.7	Flood Risk	240 min Summer	6.223	0.263	4.3	75.7	Flood Risk	360 min Summer	6.204	0.244	4.3	70.2	Flood Risk	480 min Summer	6.185	0.225	4.3	64.7	O K	600 min Summer	6.166	0.206	4.3	59.4	O K	720 min Summer	6.149	0.189	4.3	54.4	O K	960 min Summer	6.117	0.157	4.3	45.1	O K	1440 min Summer	6.067	0.107	4.3	30.7	O K	2160 min Summer	6.022	0.062	4.3	17.9	O K	2880 min Summer	6.006	0.046	3.9	13.4	O K	4320 min Summer	5.995	0.035	3.0	10.2	O K	5760 min Summer	5.989	0.029	2.5	8.4	O K	7200 min Summer	5.985	0.025	2.2	7.3	O K	8640 min Summer	5.983	0.023	1.9	6.5	O K	10080 min Summer	5.981	0.021	1.8	6.0	O K	15 min Winter	6.142	0.182	4.3	52.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.120	0.0	21	30 min Summer	94.920	0.0	35	60 min Summer	60.760	0.0	64	120 min Summer	36.120	0.0	120	180 min Summer	26.488	0.0	156	240 min Summer	21.140	0.0	188	360 min Summer	15.213	0.0	252	480 min Summer	12.015	0.0	320	600 min Summer	9.992	0.0	386	720 min Summer	8.587	0.0	452	960 min Summer	6.748	0.0	580	1440 min Summer	4.812	0.0	822	2160 min Summer	3.452	0.0	1148	2880 min Summer	2.745	0.0	1476	4320 min Summer	2.017	0.0	2208	5760 min Summer	1.642	0.0	2936	7200 min Summer	1.413	0.0	3672	8640 min Summer	1.259	0.0	4400	10080 min Summer	1.148	0.0	5136	15 min Winter	141.120	0.0	21
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The Civil Engineering Practice					Page 2
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George Street		Bonham's Field, Yapton			
Fishersgate BN41 1RA		Catchment F			
Date 25/06/2020		Designed by MEK			
File Catchment F.SRCX		Checked by			
Innovyze		Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.200	0.240	4.3	69.0	O K
60 min Winter	6.253	0.293	4.3	84.3	Flood Risk
120 min Winter	6.275	0.315	4.3	90.7	Flood Risk
180 min Winter	6.274	0.314	4.3	90.4	Flood Risk
240 min Winter	6.263	0.303	4.3	87.4	Flood Risk
360 min Winter	6.239	0.279	4.3	80.2	Flood Risk
480 min Winter	6.211	0.251	4.3	72.4	Flood Risk
600 min Winter	6.184	0.224	4.3	64.6	O K
720 min Winter	6.158	0.198	4.3	57.0	O K
960 min Winter	6.110	0.150	4.3	43.3	O K
1440 min Winter	6.039	0.079	4.3	22.8	O K
2160 min Winter	6.004	0.044	3.8	12.7	O K
2880 min Winter	5.996	0.036	3.1	10.2	O K
4320 min Winter	5.986	0.026	2.2	7.6	O K
5760 min Winter	5.982	0.022	1.9	6.2	O K
7200 min Winter	5.979	0.019	1.6	5.3	O K
8640 min Winter	5.977	0.017	1.4	4.8	O K
10080 min Winter	5.975	0.015	1.3	4.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.920	0.0	35		
60 min Winter	60.760	0.0	64		
120 min Winter	36.120	0.0	120		
180 min Winter	26.488	0.0	174		
240 min Winter	21.140	0.0	202		
360 min Winter	15.213	0.0	274		
480 min Winter	12.015	0.0	348		
600 min Winter	9.992	0.0	420		
720 min Winter	8.587	0.0	490		
960 min Winter	6.748	0.0	620		
1440 min Winter	4.812	0.0	842		
2160 min Winter	3.452	0.0	1128		
2880 min Winter	2.745	0.0	1496		
4320 min Winter	2.017	0.0	2208		
5760 min Winter	1.642	0.0	2992		
7200 min Winter	1.413	0.0	3696		
8640 min Winter	1.259	0.0	4328		
10080 min Winter	1.148	0.0	5128		
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice		Page 4																
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<u>Model Details</u> Storage is Online Cover Level (m) 6.500 <u>Infiltration Blanket Structure</u> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.02400</td> <td>Diameter/Width (m)</td> <td>30.0</td> </tr> <tr> <td>Safety Factor</td> <td>1.5</td> <td>Length (m)</td> <td>32.0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.450</td> </tr> <tr> <td>Invert Level (m)</td> <td>5.960</td> <td></td> <td></td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.02400	Diameter/Width (m)	30.0	Safety Factor	1.5	Length (m)	32.0	Porosity	0.30	Cap Volume Depth (m)	0.450	Invert Level (m)	5.960		
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The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summer	6.042	0.182	4.8	42.7	O K	60 min Summer	6.075	0.215	4.8	50.3	O K	120 min Summer	6.076	0.216	4.8	50.5	O K	180 min Summer	6.069	0.209	4.8	48.9	O K	240 min Summer	6.059	0.199	4.8	46.5	O K	360 min Summer	6.034	0.174	4.8	40.8	O K	480 min Summer	6.012	0.152	4.8	35.5	O K	600 min Summer	5.991	0.131	4.8	30.7	O K	720 min Summer	5.973	0.113	4.8	26.4	O K	960 min Summer	5.943	0.083	4.8	19.5	O K	1440 min Summer	5.911	0.051	4.8	11.9	O K	2160 min Summer	5.898	0.038	3.7	8.9	O K	2880 min Summer	5.891	0.031	3.0	7.3	O K	4320 min Summer	5.883	0.023	2.3	5.5	O K	5760 min Summer	5.879	0.019	1.9	4.5	O K	7200 min Summer	5.877	0.017	1.6	3.9	O K	8640 min Summer	5.875	0.015	1.4	3.5	O K	10080 min Summer	5.874	0.014	1.3	3.2	O K	15 min Winter	6.019	0.159	4.8	37.3	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.120	0.0	20	30 min Summer	94.920	0.0	34	60 min Summer	60.760	0.0	62	120 min Summer	36.120	0.0	100	180 min Summer	26.488	0.0	132	240 min Summer	21.140	0.0	166	360 min Summer	15.213	0.0	234	480 min Summer	12.015	0.0	298	600 min Summer	9.992	0.0	362	720 min Summer	8.587	0.0	424	960 min Summer	6.748	0.0	540	1440 min Summer	4.812	0.0	752	2160 min Summer	3.452	0.0	1108	2880 min Summer	2.745	0.0	1472	4320 min Summer	2.017	0.0	2204	5760 min Summer	1.642	0.0	2936	7200 min Summer	1.413	0.0	3616	8640 min Summer	1.259	0.0	4400	10080 min Summer	1.148	0.0	5096	15 min Winter	141.120	0.0	21
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The Civil Engineering Practice					Page 2
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Innovyze		Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.067	0.207	4.8	48.5	O K
60 min Winter	6.106	0.246	4.8	57.7	Flood Risk
120 min Winter	6.109	0.249	4.8	58.4	Flood Risk
180 min Winter	6.099	0.239	4.8	55.9	O K
240 min Winter	6.084	0.224	4.8	52.5	O K
360 min Winter	6.049	0.189	4.8	44.2	O K
480 min Winter	6.015	0.155	4.8	36.2	O K
600 min Winter	5.984	0.124	4.8	29.1	O K
720 min Winter	5.958	0.098	4.8	22.9	O K
960 min Winter	5.919	0.059	4.8	13.9	O K
1440 min Winter	5.900	0.040	3.8	9.3	O K
2160 min Winter	5.889	0.029	2.8	6.8	O K
2880 min Winter	5.883	0.023	2.3	5.4	O K
4320 min Winter	5.877	0.017	1.7	4.0	O K
5760 min Winter	5.874	0.014	1.4	3.3	O K
7200 min Winter	5.872	0.012	1.2	2.8	O K
8640 min Winter	5.871	0.011	1.0	2.5	O K
10080 min Winter	5.870	0.010	0.9	2.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	94.920	0.0	34		
60 min Winter	60.760	0.0	62		
120 min Winter	36.120	0.0	114		
180 min Winter	26.488	0.0	142		
240 min Winter	21.140	0.0	180		
360 min Winter	15.213	0.0	254		
480 min Winter	12.015	0.0	322		
600 min Winter	9.992	0.0	384		
720 min Winter	8.587	0.0	444		
960 min Winter	6.748	0.0	542		
1440 min Winter	4.812	0.0	758		
2160 min Winter	3.452	0.0	1108		
2880 min Winter	2.745	0.0	1472		
4320 min Winter	2.017	0.0	2148		
5760 min Winter	1.642	0.0	2976		
7200 min Winter	1.413	0.0	3656		
8640 min Winter	1.259	0.0	4248		
10080 min Winter	1.148	0.0	5144		
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice					Page 1																																																																																																																																																																																																																		
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Summer	6.280	0.220	1.7	65.3	O K	60 min Summer	6.336	0.276	1.7	82.0	Flood Risk	120 min Summer	6.375	0.315	1.7	93.6	Flood Risk	180 min Summer	6.394	0.334	1.7	99.1	Flood Risk	240 min Summer	6.402	0.342	1.7	101.5	Flood Risk	360 min Summer	6.402	0.342	1.7	101.5	Flood Risk	480 min Summer	6.393	0.333	1.7	99.0	Flood Risk	600 min Summer	6.384	0.324	1.7	96.2	Flood Risk	720 min Summer	6.375	0.315	1.7	93.4	Flood Risk	960 min Summer	6.357	0.297	1.7	88.1	Flood Risk	1440 min Summer	6.325	0.265	1.7	78.6	Flood Risk	2160 min Summer	6.284	0.224	1.7	66.6	O K	2880 min Summer	6.251	0.191	1.7	56.8	O K	4320 min Summer	6.200	0.140	1.7	41.6	O K	5760 min Summer	6.164	0.104	1.7	30.8	O K	7200 min Summer	6.139	0.079	1.7	23.5	O K	8640 min Summer	6.123	0.063	1.7	18.6	O K	10080 min Summer	6.113	0.053	1.7	15.6	O K	15 min Winter	6.245	0.185	1.7	55.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	141.120	0.0	22	30 min Summer	94.920	0.0	37	60 min Summer	60.760	0.0	66	120 min Summer	36.120	0.0	126	180 min Summer	26.488	0.0	184	240 min Summer	21.140	0.0	244	360 min Summer	15.213	0.0	362	480 min Summer	12.015	0.0	460	600 min Summer	9.992	0.0	508	720 min Summer	8.587	0.0	568	960 min Summer	6.748	0.0	688	1440 min Summer	4.812	0.0	956	2160 min Summer	3.452	0.0	1364	2880 min Summer	2.745	0.0	1756	4320 min Summer	2.017	0.0	2504	5760 min Summer	1.642	0.0	3176	7200 min Summer	1.413	0.0	3888	8640 min Summer	1.259	0.0	4504	10080 min Summer	1.148	0.0	5152	15 min Winter	141.120	0.0	22
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The Civil Engineering Practice						Page 2
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Date 25/06/2020 File Catchment H.SRCX			Designed by MEK Checked by			
Innovyze			Source Control 2020.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>						
	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
	30 min Winter	6.307	0.247	1.7	73.5	Flood Risk
	60 min Winter	6.371	0.311	1.7	92.4	Flood Risk
	120 min Winter	6.417	0.357	1.7	106.0	Flood Risk
	180 min Winter	6.440	0.380	1.7	112.7	Flood Risk
	240 min Winter	6.451	0.391	1.7	116.0	Flood Risk
	360 min Winter	6.455	0.395	1.7	117.2	Flood Risk
	480 min Winter	6.449	0.389	1.7	115.5	Flood Risk
	600 min Winter	6.438	0.378	1.7	112.4	Flood Risk
	720 min Winter	6.425	0.365	1.7	108.5	Flood Risk
	960 min Winter	6.402	0.342	1.7	101.6	Flood Risk
	1440 min Winter	6.358	0.298	1.7	88.5	Flood Risk
	2160 min Winter	6.298	0.238	1.7	70.7	O K
	2880 min Winter	6.247	0.187	1.7	55.6	O K
	4320 min Winter	6.171	0.111	1.7	32.8	O K
	5760 min Winter	6.123	0.063	1.7	18.7	O K
	7200 min Winter	6.107	0.047	1.6	14.1	O K
	8640 min Winter	6.102	0.042	1.4	12.6	O K
	10080 min Winter	6.099	0.039	1.3	11.5	O K
	Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	
	30 min Winter		94.920	0.0	36	
	60 min Winter		60.760	0.0	66	
	120 min Winter		36.120	0.0	122	
	180 min Winter		26.488	0.0	180	
	240 min Winter		21.140	0.0	238	
	360 min Winter		15.213	0.0	352	
	480 min Winter		12.015	0.0	464	
	600 min Winter		9.992	0.0	570	
	720 min Winter		8.587	0.0	662	
	960 min Winter		6.748	0.0	744	
	1440 min Winter		4.812	0.0	1042	
	2160 min Winter		3.452	0.0	1472	
	2880 min Winter		2.745	0.0	1876	
	4320 min Winter		2.017	0.0	2596	
	5760 min Winter		1.642	0.0	3176	
	7200 min Winter		1.413	0.0	3744	
	8640 min Winter		1.259	0.0	4496	
	10080 min Winter		1.148	0.0	5152	
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The Civil Engineering Practice		Page 3																																				
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The Civil Engineering Practice		Page 4																
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