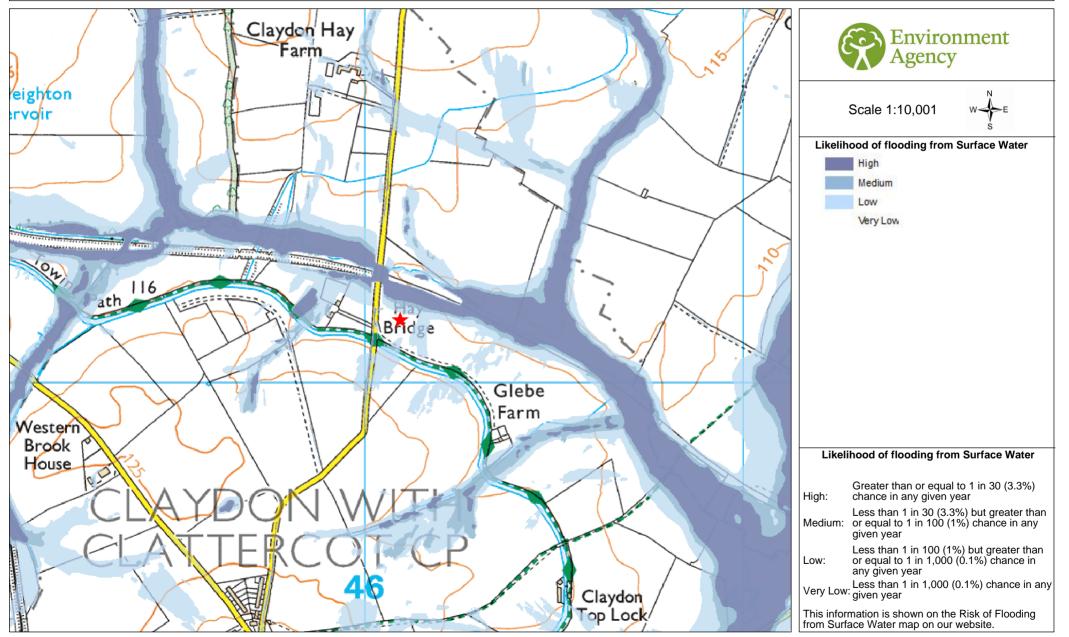
Appendix: F

EA SURFACE WATER FLOOD RISK MAP

Risk of flooding from Surface Water

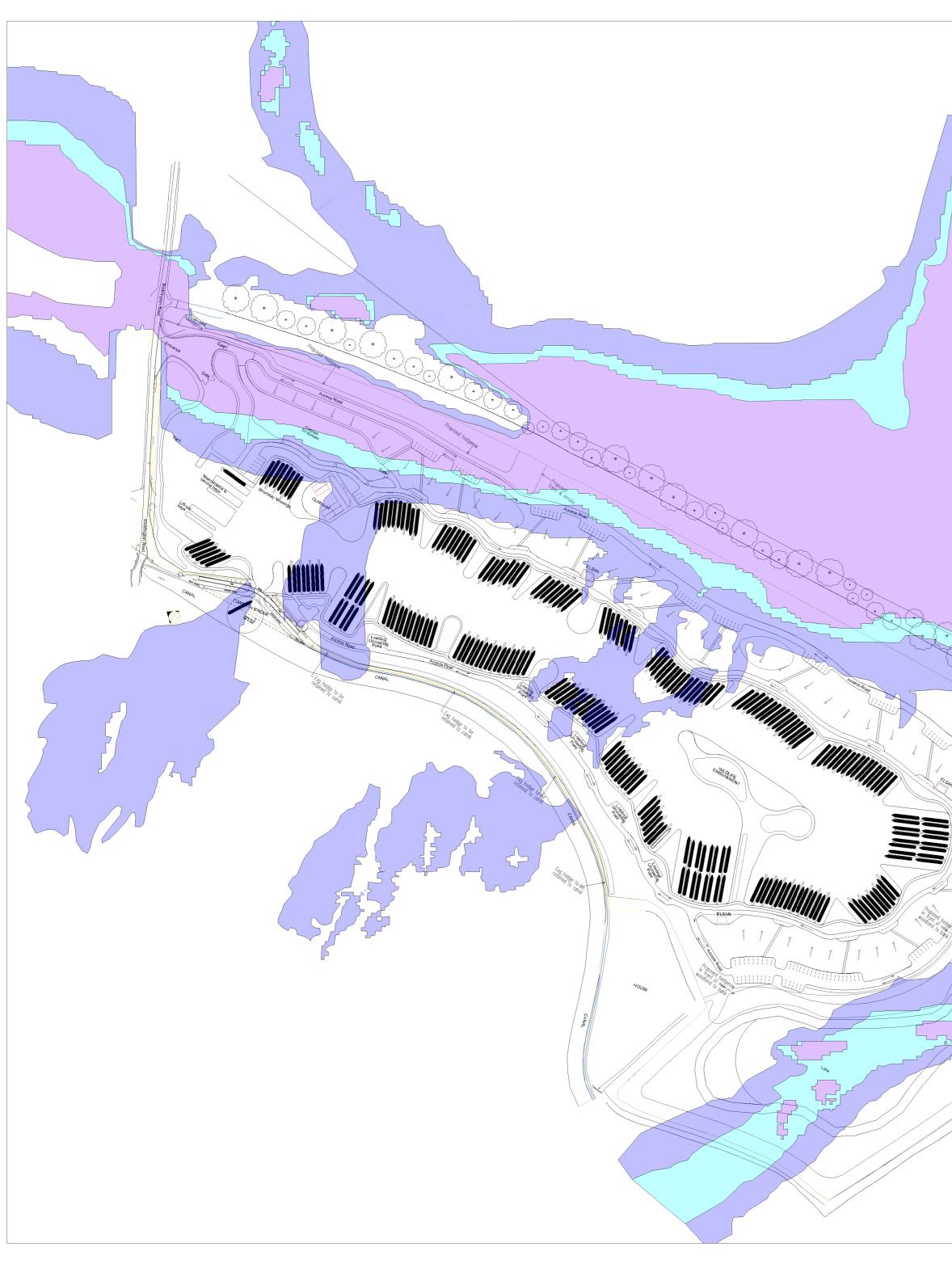


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Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel: 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Appendix: G

MASTERPLAN OVERLAY WITH SURFACE WATER RISK MAP



KEY: Likelihoo To Surfac	D OF FLOODING DUE Ce water	
HIC	GH	
ME	DIUM	
LO	W	
	TRY LOW	
V DATE BY	DESCRIPTION	CHK APD
Unit 23, Th LENT: CHLTECT:	EAS ne Maltings, Stanstead Abbo Hertfordshire, SG12 8HG Tel: 01920 871777 www.eastp.co.uk)tts,
FLOD R	AYDON MARINA CHERWELL SURFACE WATER ISK MAPPING OVERLAY Design-drawn: Date;	
	DRAWING No:	4/2018
1319	SK03 REV C	

Appendix: H

CANAL AND RIVERS TRUST CORRESPONDENCE



16th March 2017

Mrs E Elwood emma.elwood@eastp.co.uk Our Ref OX-067 Your Ref

Dear Mrs Elwood

RE: FLOOD RISK ASSESSMENT - Boddington Road, Claydon, OX17 1HB

Further to your email of 10th March, I have checked our records and have spoken to the supervisor responsible for this stretch of waterway and can confirm the following:

• At this location on the Oxford Canal, the Canal and River Trust is not aware of any records of overtopping from or breaches of this section of the waterway.

For further advice on flood risk assessments we have included some generic guidance (see appendix A).

Please note that we are unable to comment on the flood risk to individual properties or developments and interpretation of the information provided in this letter is your responsibility.

I suggest you consult the Environment Agency's website which gives the flood risk associated with the streams and rivers adjacent to the above property.

We trust this reply is satisfactory, however if you do require any further information please do not hesitate to contact the undersigned.

Yours sincerely

E J Kearsey Principal Water Engineer – South

South East Waterways

Canal & River Trust First Floor North Station House 500 Elder Gate Milton Keynes MK9 1BB **T** 0303 040 4040 **E** enquiries.southeast@canalrivertrust.org.uk www.canalrivertrust.org.uk Patron: H.R.H. The Prince of Wales. Canal & River Trust, a charitable company limited by guarantee registered in England and Wales with company number 7807276 and registered charity number 1146792, registered office address First Floor North, Station House, 500 Elder Gate, Milton Keynes MK9 1BB

Appendix A - Guidance Note for Flood Risk Assessments

The main incidents of uncontrolled loss of water from our waterways are overtopping and breaching as a result of inundation from adjacent water courses, vandalism or structural failure.

The Canal and River Trust maintains water levels using reservoirs, feeders and boreholes, and thereafter manages the water by transferring it within the canal system. The level of the water in canals is normally determined predominantly by the level and size of weirs. Water levels in river navigations are affected by the flow in the river and will fluctuate more widely than canals.

When surface water enters our waterways, the level of the water rises. Eventually the water level will reach a point where it discharges from our waterways through control structures. Where the capacity of these control structures is exceeded, overtopping may result.

Breaches which may lead to flooding can occur on our waterways. There can be a number of causes for these including: culvert collapse, animal burrowing and overtopping. The Canal and River Trust operates a comprehensive asset management system which enables us to manage the risks of such events occurring.

Breaches occur on average at a rate of three per year over the whole of the Trust owned canal network (that's over 2,000 miles of canal).

Appendix: I

GREENFIELD RUNOFF RATES

EAS		Page 1
Unit 108 The Maltings		
Stanstead Abbotts		
Hertfordshire SG12 8HG		LULICICO OM
Date 13/11/2017 14:32	Designed by Maz	
File	Checked by	
Micro Drainage	Source Control 2013.1.1	

ICP SUDS Mean Annual Flood

Input

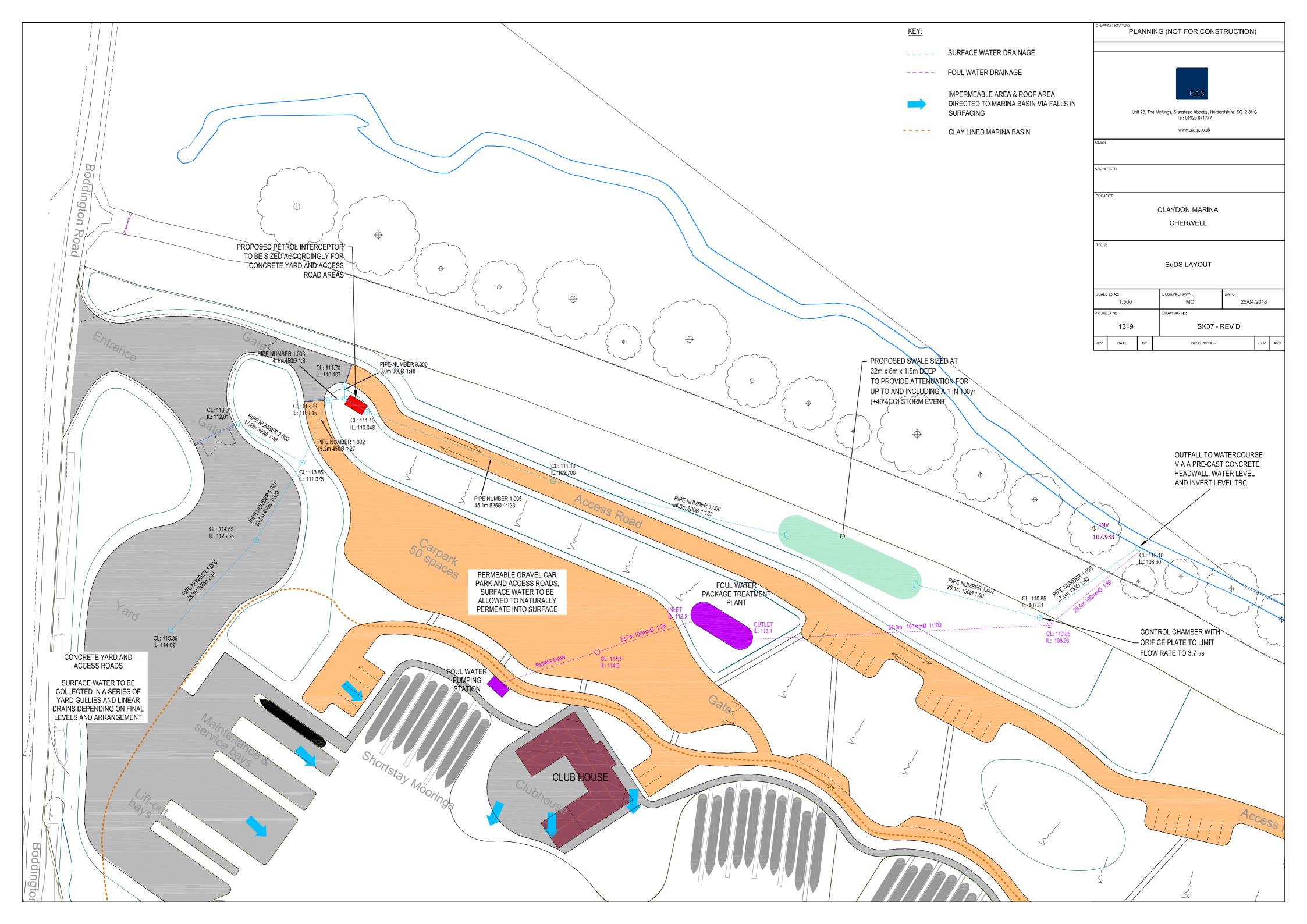
Return Period (years)	100	Soil	0.450
Area (ha)	1.000	Urban	0.000
SAAR (mm)	700	Region Number	Region 4

Results 1/s

QBAR Rural 4.4 QBAR Urban 4.4 Q100 years 11.3 Q1 year 3.6 Q30 years 8.6 Q100 years 11.3

Appendix: J

PROPOSED SUDS LAYOUT



Appendix: K

WINDES CALCULATIONS

EAS							Page 1		
Unit 108 The M	lalting	s				r			
Stanstead Abbot	ts						∇		
Hertfordshire	SG12 8	HG						<u>(5</u>	ro - O-
Date 10/05/2018			Desig	ned by	Maz				
File SURFACE WA			Checke	-	11012			C <u></u>	
Micro Drainage				ck 2013	2 1 1				
MICIO DIAINAGE			Netwol	LK ZUI.					
		Evist	ing N	etwork	Detai	ls for St	orm		
			III III	CUWOIN	Decar	15 101 50	<u>,01111</u>		
PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)
1.000	28.300	0.700	40.4	0.060	5.00	0.0	0.600	0	300
1.001	20.500	0.064	320.3	0.060	0.00	0.0	0.600	0	450
2.000	17.200	0.360	47.8	0.060	4.00	0.0	0.600	0	300
	15.200			0.000	0.00		0.600		450
1.003	4.100	0.746	5.5	0.060	0.00	0.0	0.600	0	450
3.000	3.000	0.063	47.6	0.060	4.00	0.0	0.600	0	300
1.004	5.800	0.021	276.2	0.000	0.00	0.0	0.600	0	450
1.005	45.100	0.339	133.0	0.000	0.00	0.0	0.600	0	500
1.006	54.300	0.408	133.0	0.000	0.00	0.0	0.600	0	500
1.007	29.100	0.364	79.9	0.000	0.00	0.0	0.600	0	150
1.008	27.000	0.337	80.1	0.000	0.00	0.0	0.600	0	150
			Netw	ork Re	sults	Table			

PN US/IL Σ I.Area Σ Base Vel Cap (m) (ha) Flow (l/s) (m/s) (l/s) 1.000 114.090 0.060 0.0 2.48 175.3 0.120 1.001 112.233 0.0 1.13 179.8 2.000 112.010 0.060 0.0 2.28 161.2 0.180 0.240 0.0 3.91 622.5 0.0 8.72 1386.1 1.002 111.375 1.003 110.815 3.000 110.407 0.060 0.0 2.28 161.5 0.0 1.22 193.8 0.0 1.88 369.5 0.0 1.88 369.5 0.300 0.300 1.004 110.069 1.005 110.048 1.006 109.709 0.300 1.007 109.301 0.300 0.0 1.13 19.9 1.008 **108.937** 0.300 0.0 1.12 19.9

EAS		Page 2
Unit 108 The Maltings		
Stanstead Abbotts		
Hertfordshire SG12 8HG		THERE C
Date 10/05/2018 14:22	Designed by Maz	
File SURFACE WATER DR	Checked by	
Micro Drainage	Network 2013.1.1	

PIPELINE SCHEDULES for Storm

<u>Upstream Manhole</u>

PN	-	Diam (mm)		C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	0			115.390			Open Manhole	
1.001	0	450	14	114.690	112.233	2.007	Open Manhole	1800
2.000	0	300	15	113.310	112.010	1.000	Open Manhole	1200
1.002	0	450	16	113.850	111.375	2.025	Open Manhole	1800
1.003	0	450	17	112.390	110.815	1.125	Open Manhole	1800
3.000	0	300	18	111.700	110.407	0.993	Open Manhole	1200
1.004	0	450	19	111.700	110.069	1.181	Open Manhole	1800
1.005	0	500	20	111.100	110.048	0.552	Open Manhole	1800
1.006	0	500	21	111.100	109.709	0.891	Open Manhole	1800
1.007	0	150	22	110.800	109.301	1.349	Open Manhole	1050
1.008	0	150	23	110.500	108.937	1.413	Open Manhole	1050

Downstream Manhole

PN	Length (m)	Slope (1:X)		C.Level (m)	I.Level (m)	-	MH Connection	MH DIAM., L*W (mm)
	28.300 20.500			114.690 113.850			Open Manhole Open Manhole	
2.000	17.200	47.8	16	113.850	111.650	1.900	Open Manhole	1800
1.002	15.200	27.1	17	112.390	110.815	1.125	Open Manhole	1800
1.003	4.100	5.5	19	111.700	110.069	1.181	Open Manhole	1800
3.000	3.000	47.6	19	111.700	110.344	1.056	Open Manhole	1800
1.004	5.800	276.2	20	111.100	110.048	0.602	Open Manhole	1800
1.005	45.100	133.0	21	111.100	109.709	0.891	Open Manhole	1800
1.006	54.300	133.0	22	110.800	109.301	0.999	Open Manhole	1050
1.007	29.100	79.9	23	110.500	108.937	1.413	Open Manhole	1050
1.008	27.000	80.1		110.200	108.600	1.450	Open Manhole	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)		
1.008	110.200	108.600	107.930	0	0	

EAS		Page 3
		Laye J
Unit 108 The Maltings Stanstead Abbotts		
		I Caro M
Hertfordshire SG12 8HG		B
Date 10/05/2018 14:22	Designed by Maz	<u>L'andres</u>
File SURFACE WATER DR	Checked by	
Micro Drainage	Network 2013.1.1	
<u></u>	imulation Criteria for Sto	brm
Areal Reduction Hot Start		r * 10m³/ha Storage 2.000 Inlet Coeffiecient 0.800
Number of Onl	Hydrographs 0 Number of Stora ine Controls 1 Number of Time/ ine Controls 0 Number of Real	/Area Diagrams 0
	Synthetic Rainfall Detail:	<u>s</u>
Rainfall Moo Return Period (year Regi M5-60 (m Ratio	rs) 100 .on England and Wales mm) 20.000 Storm Dur	Profile Type Summer Cv (Summer) 0.750 Cv (Winter) 0.840 ration (mins) 30

EAS		Page 4
Unit 108 The Maltings		
Stanstead Abbotts		
Hertfordshire SG12 8HG		THERE ON
Date 10/05/2018 14:22	Designed by Maz	1) Perforence
File SURFACE WATER DR	Checked by	
Micro Drainage	Network 2013.1.1	

Online Controls for Storm

Orifice Manhole: 22, DS/PN: 1.007, Volume (m³): 11.7

Diameter (m) 0.038 Discharge Coefficient 0.600 Invert Level (m) 109.301

EAS		Page 5
Unit 108 The Maltings		
Stanstead Abbotts		
Hertfordshire SG12 8HG		LULICHO ON
Date 10/05/2018 14:22	Designed by Maz	DDRAMARCO
File SURFACE WATER DR	Checked by	
Micro Drainage	Network 2013.1.1	

Storage Structures for Storm

Swale Manhole: 22, DS/PN: 1.007

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier

Infiltration Coefficient Base (m/hr)	0.00000 Length (m)	32.0
Infiltration Coefficient Side (m/hr)	0.00000 Side Slope (1:X)	2.2
Safety Factor	2.0 Slope (1:X)	1000.0
Porosity	1.00 Cap Volume Depth (m)	0.000
Invert Level (m)	109.300 Cap Infiltration Depth (m)	0.000
Base Width (m)	1.5 Include Swale Volume	Yes

		I	Page 6					
Unit 108 The Maltings								
Stanstead Abbotts								
Hertfordshire SG12 8HG								
Date 10/05/2018 14:22	Designed by N	Dentmener						
File SURFACE WATER DR								
Micro Drainage	Network 2013	.1.1	1					
Summary of Critica	al Results by M	laximum Level	(Rank 1) for Storm					
Hot Start Hot Start Lev Manhole Headloss Coeff Foul Sewage per hectar Number of Inpu Number of Off Rainfall H M5-60 Margin for Fl	c (mins) 0 vel (mm) 0 (Global) 0.500 Fl ce (1/s) 0.000 at Hydrographs 0 aline Controls 1 Fline Controls 0 <u>Synthetic Rai</u> Model Region England an) (mm) ood Risk Warning Analysis Time DTS St ofile(s)	Additional Flow MADD Factor In ow per Person per Number of Storage Number of Time/A: Number of Real T: <u>nfall Details</u> FSR Ratio d Wales Cv (Summe 20.000 Cv (Winte (mm) 300.0 E step Fine Inert atus ON	rea Diagrams 0 ime Controls 0 o R 0.417 er) 0.750 er) 0.840 DVD Status OFF					
		60, 120, 240, 360	0, 480, 960, 1440					
Duration(s Return Period(s) Climate Cha	(years)	60, 120, 240, 360	0, 480, 960, 1440 100 40					
Return Period(s) Climate Cha Ret	(years) ange (%) curn Climate F	irst X First	100					
Return Period(s) Climate Cha Ret PN Storm Per	(years) ange (%) curn Climate F	irst X First	100 40 Y First Z O/F Lvl					
Return Period(s) Climate Cha Ret	(years) ange (%) curn Climate F ciod Change Su	irst X First	100 40 Y First Z O/F Lvl					
Return Period(s) Climate Cha PN Storm Per 1.000 15 Winter 1.001 15 Winter 2.000 15 Winter	(years) ange (%) curn Climate F riod Change Su 100 +40% 100 +40% 100 +40%	irst X First	100 40 Y First Z O/F Lvl					
Return Period(s) Climate Cha PN Storm Per 1.000 15 Winter 1.001 15 Winter 2.000 15 Winter 1.002 15 Winter	(years) ange (%) curn Climate F riod Change Su 100 +40% 100 +40% 100 +40% 100 +40%	irst X First	100 40 Y First Z O/F Lvl					
Return Period(s) Climate Cha PN Storm Per 1.000 15 Winter 1.001 15 Winter 2.000 15 Winter 1.002 15 Winter 1.003 15 Winter	(years) ange (%) curn Climate F riod Change Su 100 +40% 100 +40% 100 +40% 100 +40% 100 +40%	irst X First S rcharge Flood	100 40 Y First Z O/F Lvl					
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EAS		Page 7
Unit 108 The Maltings		
Stanstead Abbotts		
Hertfordshire SG12 8HG		LULICICO OM
Date 10/05/2018 14:22	Designed by Maz	
File SURFACE WATER DR	Checked by	
Micro Drainage	Network 2013.1.1	

Summary of Critical Results by Maximum Level (Rank 1) for Storm

		Water	Flooded				Pipe	
DN	US/MH Name	Level	Surch'ed		•	O'flow (1/s)		Status
PN	Name	(m)	Depth (m)	(111-)	Cap.	(1/5)	(1/5)	Status
1.006	21	110.782	0.573	0.000	0.08	0.0	25.5	SURCHARGED
1.007	22	110.781	1.330	0.000	0.19	0.0	3.6	FLOOD RISK
1.008	23	108.981	-0.106	0.000	0.19	0.0	3.6	OK