

Sibley, Sally

From: Grant, David
Sent: 11 August 2015 08:09
To: _planningadvice
Subject: 7 Goxhill Avenue, Donington (H04-0522-15)
Attachments: 15020 percolation test calc sheets CROSSLAND.pdf

Hi,

Can you please attach this information to the file 7 Goxhill Avenue, Donington (H04-0522-15) under 6SUP.

Thanks,

Dave

David Grant | Planning Officer | South Holland District Council
DDI: 01775 764472
www.sholland.gov.uk

From: Robert Lowe Chartered Architect [mailto:lowearchitect@gmail.com]
Sent: 10 August 2015 17:56
To: Grant, David
Subject: Re: 7 Goxhill Avenue, Donington - IDB comments

Hi David,

I have attached the soakaway calculation following the recent percolation test FYI.

This is not a great deal different to the guestimated size previously submitted and indicated on drawing 02A.

On 10 August 2015 at 12:51, Grant, David <dgrant@sholland.gov.uk> wrote:

Dear Mr Lowe,

Unfortunately, when I chased up a consultation response from the Highways & SUDS department they claimed that they had not been consulted. We reconsulted them with a response deadline of Monday the 3rd of August. I spoke to the officer responsible this morning and he has sent me a response today. I will endeavour to get the decision out to you by the end of the week. I have also spoke to the applicant this morning to make them aware of this.

Yours sincerely,

David Grant

Planning Officer

From: Robert Lowe Chartered Architect [mailto:lowearchitect@gmail.com]
Sent: 05 August 2015 09:50
To: Grant, David

Subject: Re: 7 Goxhill Avenue, Donington - IDB comments

Hi David,

SH/0522/15 - 7 Goxhill Avenue, Donington

Conscious that the decision due date on the above application was yesterday.

Could you let me know where we are, when you return from leave, as the applicant is anxious to make a start.

Many thanks.

On 1 July 2015 at 09:29, Grant, David <dgrant@sholland.gov.uk> wrote:

Dear Mr Lowe,

Thank you for your amended plans. They will be added to the file.

Yours sincerely,

David Grant

Planning Officer

From: Robert Lowe Chartered Architect [mailto:lowearchitect@gmail.com]
Sent: 30 June 2015 17:13
To: Grant, David; mailbox@blacksluiceidb.gov.uk
Subject: Fwd: 7 Goxhill Avenue, Donington - IDB comments

Apologies,

I my error in making the attachment for Goxhill Avenue - the correct amendment form is attached. Please discard the ELDC letter, wrongly sent.

----- Forwarded message -----

From: Robert Lowe Chartered Architect <lowearchitect@gmail.com>
Date: 30 June 2015 at 17:07
Subject: Re: 7 Goxhill Avenue, Donington - IDB comments
To: "Grant, David" <dgrant@sholland.gov.uk>, mailbox@blacksluiceidb.gov.uk

SH/0522/15 - 7 Goxhill Avenue, Donington

Dear Mr Grant,

Thanks for your email forwarding BSIDB's letter.

It is intended to carry drains from the two new RWP's to a new soakaway in the front garden.

This will located a safe distance from new and existing buildings.

Calculations for the size of the soakaway will be prepared following percolation tests and submitted to SHDC Building Control for their approval as part of the Building Regulations application, in the normal manner.

I have attached a copy of your form [though I have had to amend this, deleting agreement to an open ended extension of time - unreasonable on such a routine matter] and revised drawings 02A & 05B.

On 30 June 2015 at 08:41, Grant, David <dgrant@sholland.gov.uk> wrote:

Dear Mr Lowe,

Please find attached a copy of a letter from Black Sluice Internal Drainage Board requesting a method for surface water disposal. Please submit amended plans and an amendment form to address their concerns.

Yours sincerely,

David Grant

Planning Officer

David Grant | Planning Officer | South Holland District Council
DDI: 01775 764472
www.sholland.gov.uk

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Regards,
Rob Lowe

Robert Lowe Chartered Architect

1-2 North End, Swineshead, Boston, Lincolnshire, PE20 3LR
tel: 01205-821117 fax: 01205-821139 mob: 07904519189

lowearchitect@gmail.com

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Regards,
Rob Lowe

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Polystorm Soakaway Crate option

Percolation test calculations

TEST RESULTS	test	time	soakaway ref:	SA1
			location:	
	1	295 minutes	pipe invert:	0.600 m
	2	320 minutes	pit invert:	1.000 m
	3	330 minutes	pit depth:	0.300 m
	total [min's]	945 minutes	pit width:	0.300 m
	average [min's]	315 minutes	pit length:	0.300 m
	T = worst case	330 minutes	pit volume PV =	0.027 m3

test soakage area = base + half wall = **As =** 0.27 m2

percolation factor **f =** PV / As x T = 0.000303 m3/m2min

Using Data from BRE Digest 365 to calculate run off volume

Storm drainage inflow - I

roof area [m2] new + existing 106.6 m2
 hardstanding [m2] 0 m2
 total [m2] A = 106.6 m2
 + 30% allowance for climate change
Ac= 138.58 m2

inflow I= AcxR

Taking Z1 as 0.54

storm duration D [min's]	M5-D [min's] =20mm x Z1	Z2	M10-D [min's] = Rmm	taking M10-D storms I=AcxR [m3]
10	10.80	1.22	13.18	1.83
15	13.00	1.23	15.99	2.22
30	16.40	1.24	20.34	2.82
60	20.00	1.24	24.80	3.44
120	23.80	1.24	29.51	4.09
240	23.80	1.22	29.04	4.02
600	33.60	1.19	39.98	5.54

Outflow

Try crate soakaway [95% voids] Polystorm crates each 1.0x0.5x0.4m deep

pipe invert:	0.600 m			
pit invert:	1.000 m			
try plan dimensions				
length:	2.000 m			
width:	1.500 m			
storage volume V =	2.850 m3	minute storm D	O + V =	[O+V]-I =
soakaway outflow O =	0.004 m3	10	2.854 m3	1.028 m3
[f x wall area x D]	0.006 m3	15	2.856 m3	0.640 m3
	0.013 m3	30	2.863 m3	0.045 m3
	0.025 m3	60	2.875 m3	-0.561 m3
	0.051 m3	120	2.901 m3	-1.189 m3
	0.102 m3	240	2.952 m3	-1.072 m3
	0.255 m3	600	3.105 m3	-2.436 m3

Fails at D60

pipe invert:	0.600 m			
pit invert:	1.000 m			
try plan dimensions				
length:	4.000 m			
width:	1.500 m			
storage volume V =	5.700 m3	minute storm D	O + V =	[O+V]-I =
soakaway outflow O =	0.007 m3	10	5.707 m3	3.881 m3
[f x wall area x D]	0.010 m3	15	5.710 m3	3.494 m3
	0.020 m3	30	5.720 m3	2.902 m3
	0.040 m3	60	5.740 m3	2.303 m3
	0.080 m3	120	5.780 m3	1.690 m3
	0.160 m3	240	5.860 m3	1.836 m3
	0.400 m3	600	6.100 m3	0.559 m3

SA

OK use 4.0 x 1.5 x 0.4m deep [invert at 1.0m below ground] Polystorm crate soakaway [12no. crates in a single layer]