From: <u>Hilary Saunders</u>
To: Planning

Subject: FW: NYM/2018/0375/FL - Whitby Seafoods

Date: 05 September 2018 11:51:57

Attachments: <u>image002.png</u>

Surface water drainage proposals (revised) sheet 1.pdf Surface water drainage proposals (revised) sheet 2.pdf

From: Simon Banks

Sent: 05 September 2018 11:49

To: Hilary Saunders

Subject: RE: NYM/2018/0375/FL - Whitby Seafoods

Hilary

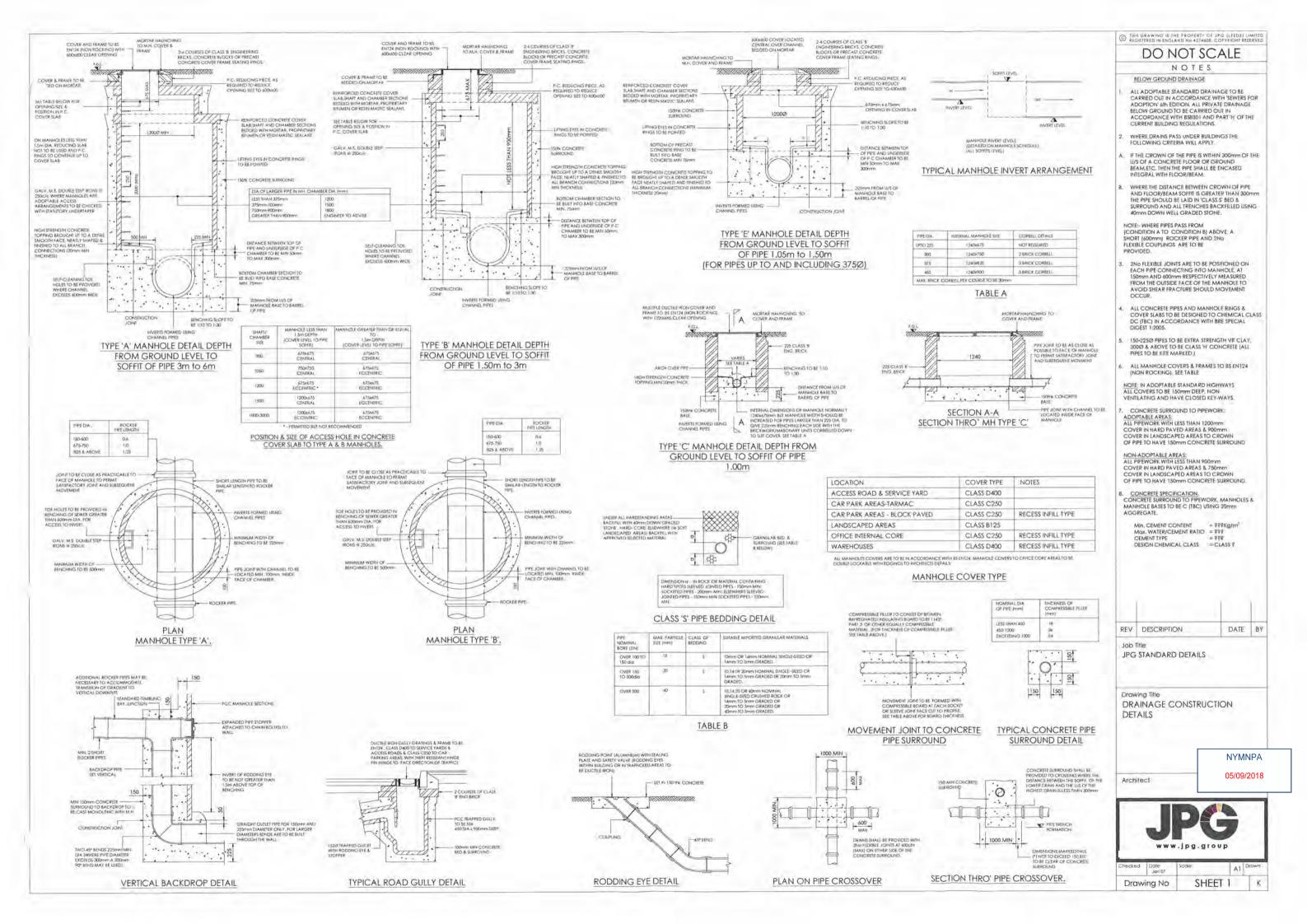
Further to my earlier email, please find attached the revised drainage proposals. As you can see from the attached, the proposals have been amended to utilise a single run-off destination. I can also confirm that the reasoning behind the decision to disregard ground infiltration was made on the back of the information gained from the recent ground investigation completed by JPG, who have advised that the ground conditions are not suitable for infiltration.

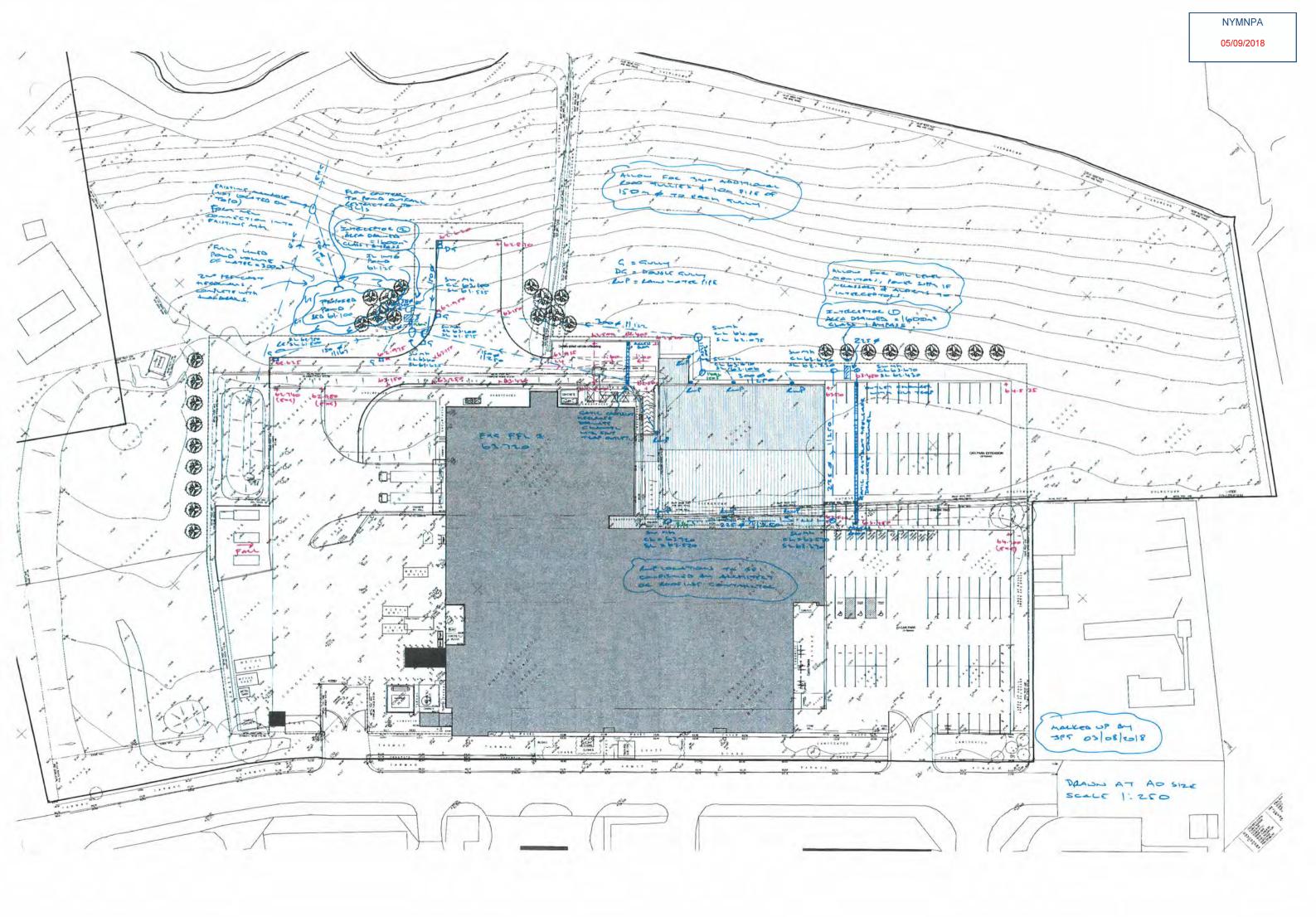
In summary all the roof water from the new extension along with the surface water from the proposed car park and HGV access road are to drain to a new pond prior to connection to the existing drain which discharges into the watercourse to the North of the site. Drainage from the car park and HGV access road will incorporate interceptors prior to entering the new pond. A new land drain will be introduced at the change in ground level to the rear of the site, the outfall from which will connect to the new surface water drainage system prior to entering the new pond.

I hope that the above/attached meets with the NYCC requirements and should you require any further information, please do not hesitate in contacting me.

Kind regards

Simon





Design Proposals

Surface Water Drainage Attenuation Estimates

4316 Extension to Whitby Seafoods Whitby



SURFACE WATER ATTENUATION ESTIMATE

Date = 31.07.2018

Initial = DD

Design Parameters

M560 = 18.000
R = 0.343
Site Area = 0.480ha
Impermeable Area = 0.480ha
Discharge rate = 3 1/s

Attenuation Volumes

1:30 Year = 160m3 1:100 Year = 222m3 1:100 Year +40 cc = 345m3

Notes

Say 300m3 for costing purposes





Greenfield runoff estimation for sites

www.uksuds.com | Greenfield runoff tool

Calculated by: Dave Dunn

Site name: Whitby Seafood

Site location: Whitby

This is an estimation of the greenfield runoff rate limits that are needed to meet normal best practice criteria in line with Environment Agency guidance. Preliminary rainfall runoff management for developments. W5-074/A/TR1/1 rev. E (2012) and the SuDS Manual. C753 (Ciria. 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Site coordinates

Latitude: 54.47209° N

Longitude: 0.59404° W

Reference: 6413049

Date: 2018-07-31T08:09:43

Methodology

IH124

Site characteristics

Total site area (ha)

0.480

Methodology

Qbar estimation method Calculate from SPR and SAAR SPR estimation method Calculate from SOIL type

	Default	Edited
SOIL type	4	4
HOST class	***	
SPR/SPRHOST	0.47	0.47
Hydrological characteristics	Default	Edited
SAAR (mm)	636	636
Hydrological region	3	3
Growth curve factor: 1 year	0.86	0.86
Growth curve factor: 30 year	1.75	1.75
Growth curve factor: 100 year	2.08	2.08

Notes:

(1) Is Q_{BAR} < 2.0 l/s/ha?

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consents are usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set in which case blockage work must be addressed by using appropriate drainage elements

(3) Is SPR/SPRHOST ≤ 0.3?

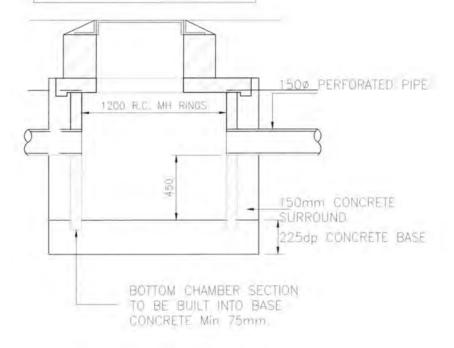
Default	Edited
2.07	2.07
1.78	1.78
3.63	3.63
4.31	4.31
	2.07 1.78 3.63

NYMNPA

05/09/2018

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NOTE SEE MANHOLE TYPE 'B' FOR STANDARD MANHOLE DETAILS.



SILT TRAP DETAIL

(1:25)

		1 1			
AB	AS BUILT ISSUE	28.04.11	MG		
REV	DESCRIPTION	DATE	Вт		

Job Title

WHITBY SEAFOODS

Drawing Title.

SILT PIT DETAIL

Architect

BUILDING SERVICES MANAGEMENT

JORDAN PRITCHARD GORMAN Consulting Civil & Structural Engineers

JPG 5 John Charles Way Leeds LS12 6QA

Checked	Date FEB 11	Scale 1:25	A4	Drawn KB
Drawing No		4316	-08	AB

NYMNPA 05/09/2018

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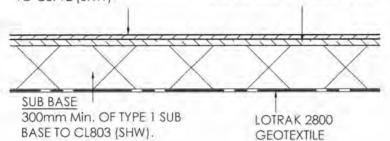
DO NOT SCALE

NOTES

SURFACE COURSE 30mm OF AC10 CLOSE SURF 100/150 (ASPHALT CONCRETE) TO CL912 (SHW)

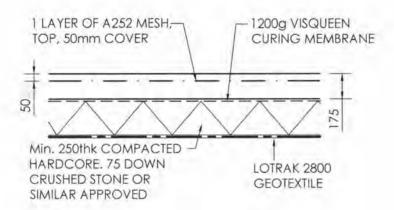
BASED ON 3%CBR

BINDER COURSE 50mm OF AC20 DENSE BIN 100/150 (ASPHALT CONCRETE) TO CL906(SHW)



CAR PARKING AREAS (TARMAC)

Scale 1:25



CONCRETE SERVICE YARD

Scale 1:25

NYMNPA 05/09/2018

TENDER		REV	DESCRIPTI	ON	DA	TE	ВҮ
JPG	Job Title WHITBY SEAFOODS, WHITBY Drawing Title. EXTERNAL CONSTRUCTION BUILD UPS	Architect					
		Checked	Date July 18	Scale 1:25		A4	Drawn All
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