

protection standard suitable for Zone 0 and conform to the requirements of BS5345 part 1 and BS EN60079-10 1996.

Silt level alarm

In order to prevent the build-up of excessive levels of silt, a silt level alarm may be used.

It is proposed that the detailed design of the final scheme would be agreed with the Environment Agency and LPA prior to works commencing.

7.4 Risk Management

The sources of contaminants on the site are oils, fuels and chemicals associated with the movement of vehicles and processes proposed at the site.

As noted in Section 7.3 a full retention Class 1 separator will be used before the discharge of the surface water runoff from the site. Therefore, surface water runoff from the site will be treated, managed and mitigated so that the discharge of surface water from the site will not be contaminated therefore, controlling the pollution risk proposed by the proposed development.

Oils, fuels or chemicals will be stored safely, legally and will reduce the risk of a potentially costly pollution incident.

The tanks, drums or other containers will be strong enough to hold the oil without leaking or bursting. The containers are positioned away from any vehicle traffic to avoid damage from collision.

Secondary containment, such as a bund or drip tray, is provided to catch any oil leaks from the container or its ancillary pipe work and equipment. The secondary containment is sufficient to contain at least 110% of the maximum contents. Where more than one container is stored, the secondary containment is capable of storing 110% of the largest tank or 25% of the total storage capacity, whichever is the greater.

The secondary containment base and walls are impermeable to water and oil. All valves, filter, sight gauge, vent pipe or other ancillary equipment are kept within the secondary containment when not in use.

All workings areas are and will be constructed from hardstanding and will therefore be made up of impermeable surface, which prevents any pollution of the soil substrate and groundwater.

Regular maintenance of the drainage network will be undertaken to prevent blockages and to protect the drainage network on the site and into which the site discharges into.

An easement of a minimum of 10m measured from the top of bank will be maintained for all the watercourses shown on Drawing 2 therefore providing further protection of surface watercourses. Barnsley Council requires an easement of at least 3m (see Appendix 3) and the Environment Agency require an easement of at least 10m.

8.0 SUMMARY AND CONCLUSIONS

8.1 Introduction

This report presents a Drainage Assessment, in accordance with National Planning Requirements and the LPA, to support a planning application for the proposed development at The Cullet Yard, Wombwell, Barnsley, S73 8HR.

This report details the existing and proposed water drainage network at the site to allow the site to be developed for a commercial development in support of the enclosed planning application.

8.2 Southern Area

The Drainage Assessment has demonstrated the following:

- Drainage of the site will continue to take place with separate systems for foul and surface water drainage. The separate system will extend to the private sewers within Bradbury Balk Lane.
- The site will continue discharge to the private foul water sewers located within Bradbury Balk Lane to the east of the site adjacent to the building.
- The foul water runoff rates will be no different compared to current conditions; the rates of runoff will not increase due to the proposed development and will continue to drain by gravity.
- The surface water runoff will continue to discharge to the private sewer located within Bradbury Balk Lane adjacent to the entrance to the site.
- Surface water runoff from communal parking and hardstanding must pass through an adequately sized full retention separator (Class) 1 oil, petrol and grit separator before discharge to the private sewer network Bradbury Balk Lane. The separator will be located upstream of discharge from the site.
- Roofs areas will continue to discharge to the private sewer located within Bradbury Balk Lane adjacent to the building. Run off from low risk areas, such as roofs, should not be connected to a separator. It is understood that the sewer adjacent to the building is currently in need of repair therefore, the sewer will be repaired.
- The existing impermeable surfacing will be retained and it is not proposed to introduce any hard paved areas. All workings areas will therefore be constructed from hardstanding and will therefore be made up of impermeable surface, which will prevent pollution of the soil substrate and groundwater.
- The existing and proposed surface water runoff rate from the site during the 65mm/hr rainfall event is and will be 22l/s.

- Surface runoff will therefore remain unchanged from the existing conditions therefore ensuring that the development will not increase flood risk elsewhere. Therefore, the surface water runoff from the site will not need to be attenuated.
- Oils, fuels or chemicals will be stored safely, legally and will reduce the risk of a potentially costly pollution incident.
- The tanks, drums or other containers will be strong enough to hold the oil without leaking or bursting. The containers are positioned away from any vehicle traffic to avoid damage from collision.
- Secondary containment, such as a bund or drip tray, is provided to catch any oil leaks from the container or its ancillary pipe work and equipment.
- All workings areas are and will be constructed from hardstanding and will therefore be made up of impermeable surface, which prevents any pollution of the soil substrate and groundwater.
- Regular maintenance of the drainage network will be undertaken to prevent blockages and to protect the drainage network on the site and into which the site discharges into.
- An easement of a minimum of 10m measured from the top of bank will be maintained for all the watercourses shown on Drawing 2 therefore providing further protection of surface watercourses. Barnsley Council requires an easement of at least 3m and the Environment Agency require an easement of at least 10m.

8.4 Northern Area

The Drainage Assessment has demonstrated the following:

- Drainage of the site will take place with a system for surface water drainage.
- Surface water runoff from communal parking and hardstanding must pass through an adequately sized full retention separator (Class) 1 oil, petrol and grit separator. The separator will be located upstream of discharge from the site.
- The existing site area will be surfaced in impermeable materials. All workings areas will therefore be constructed from hardstanding and will therefore be made up of impermeable surface, which will prevent pollution of the soil substrate and groundwater.
- The existing and proposed surface water runoff rate from the site during the 65mm/hr rainfall event is and will be 47l/s.
- Surface runoff will therefore remain unchanged from the existing conditions therefore ensuring that the development will not increase flood risk elsewhere. Therefore, the surface water runoff from the site will not need to be attenuated.

- Oils, fuels or chemicals will be stored safely, legally and will reduce the risk of a potentially costly pollution incident.
- The tanks, drums or other containers will be strong enough to hold the oil without leaking or bursting. The containers are positioned away from any vehicle traffic to avoid damage from collision.
- Secondary containment, such as a bund or drip tray, is provided to catch any oil leaks from the container or its ancillary pipe work and equipment.
- All workings areas are and will be constructed from hardstanding and will therefore be made up of impermeable surface, which prevents any pollution of the soil substrate and groundwater.
- Regular maintenance of the drainage network will be undertaken to prevent blockages and to protect the drainage network on the site and into which the site discharges into.
- An easement of a minimum of 10m measured from the top of bank will be maintained for all the watercourses shown on Drawing 2 therefore providing further protection of surface watercourses. Barnsley Council requires an easement of at least 3m and the Environment Agency require an easement of at least 10m.

8.6 Conclusion

Therefore this Drainage Assessment demonstrates that the proposed development can be operated without causing an increased impact on existing off site service provision.

DRAWINGS



Key

Site Boundary

enzygo
environmental consultants

STEP Business Centre, Wortley Rd, Sheffield, S36 2UH

CLIENT:
GB Cullet Ltd.

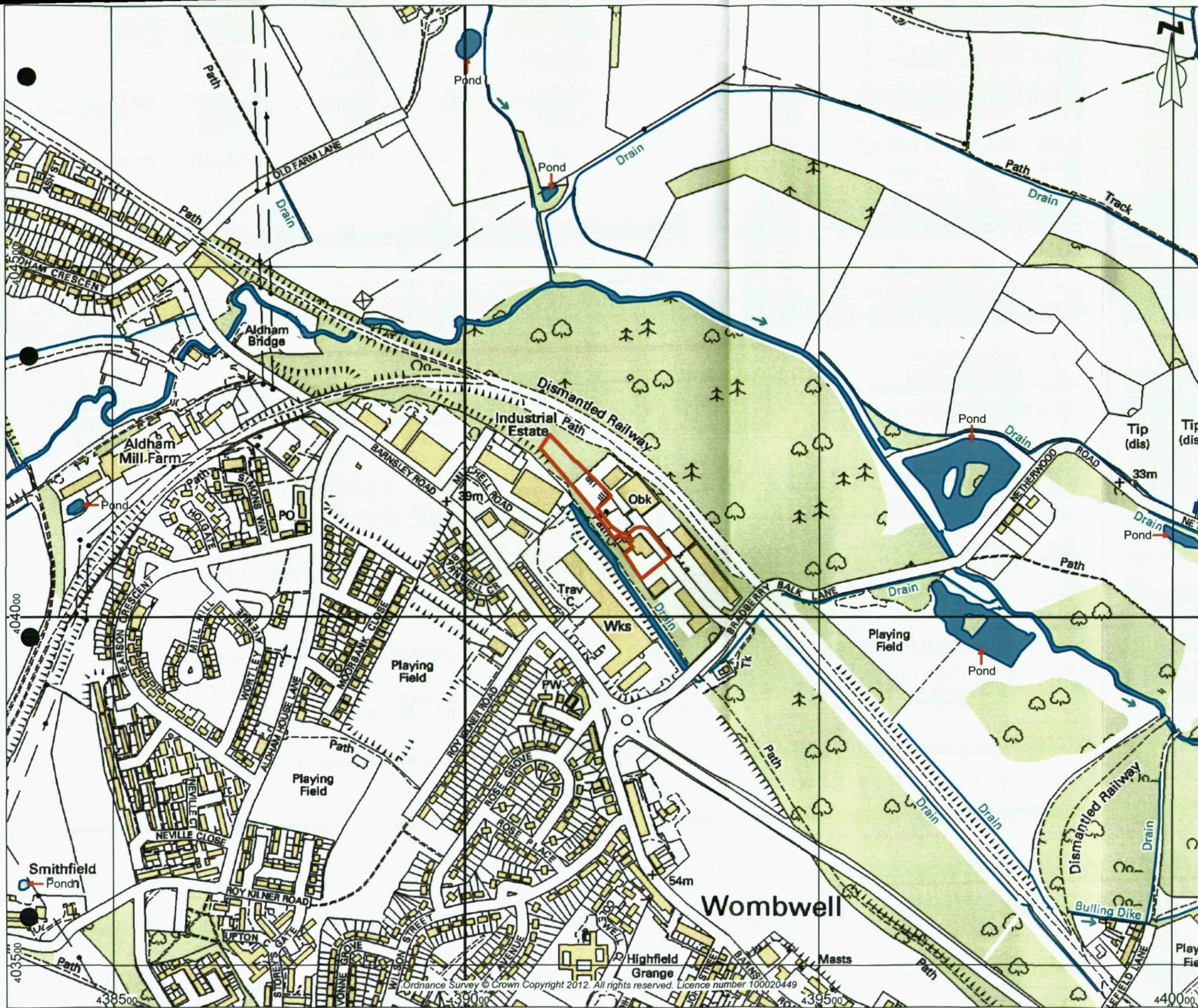
SCALE: 1:15,000@A3
PROJECT REF: SHF.1037.001.D.001

DRAWN: MG
CHECKED: KS
DATE: Oct 2012

PROJECT:
The Cullet Yard

TITLE:
Site Location Plan

FIGURE NO:
1



Key

- Site Boundary
- Surface Water Features
- Ditch/Stream

enzygo
environmental consultants

STEP Business Centre, Wortley Rd, Sheffield, S36 2UH

CLIENT:
GB Cullet Ltd.

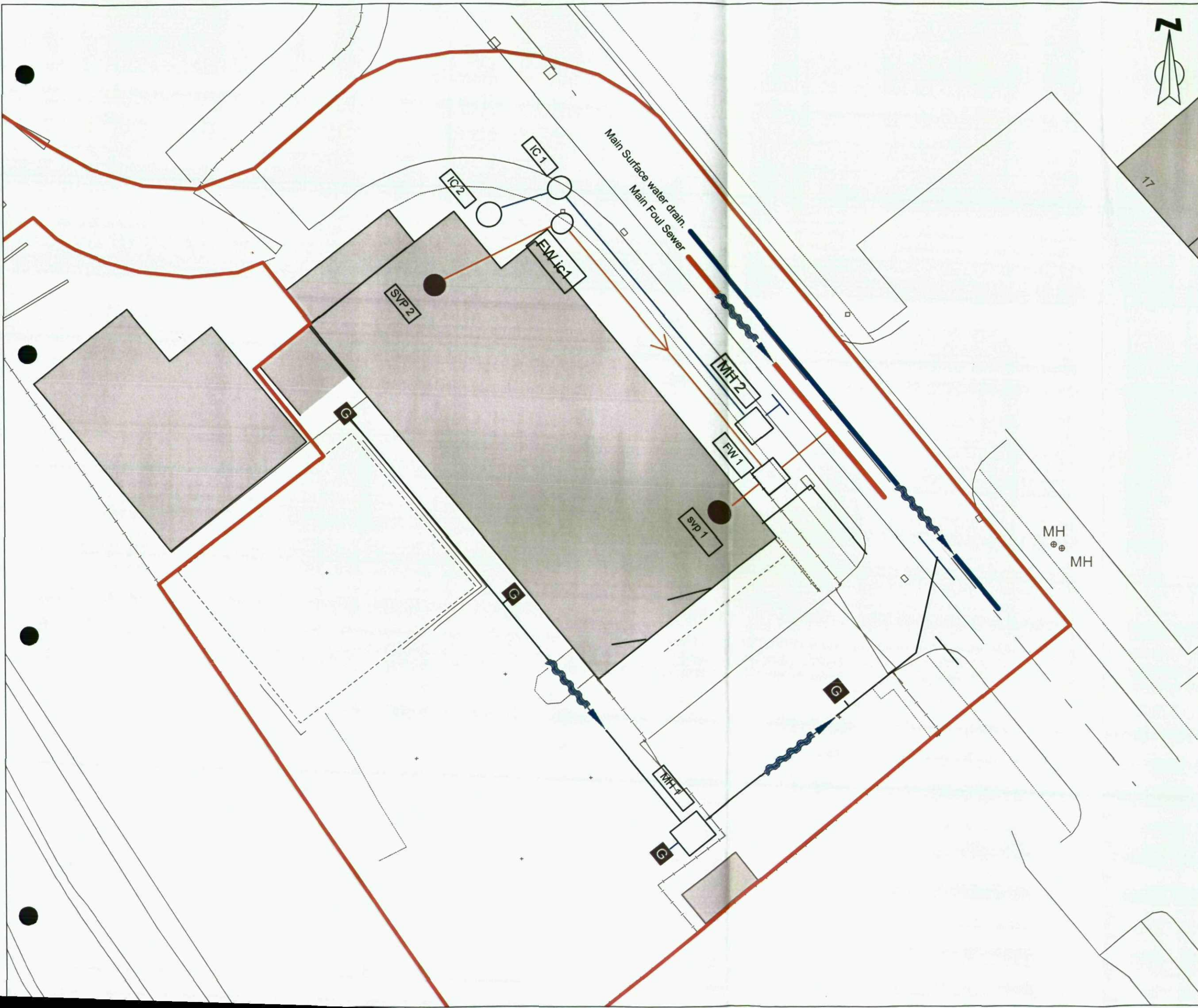
SCALE: 1:5,000@A3
PROJECT REF: SHF.1037.001.D.002

DRAWN: MG
CHECKED: KS
DATE: Oct 2012

PROJECT:
The Cullet Yard

TITLE:
Surface Water Features

FIGURE NO:
2

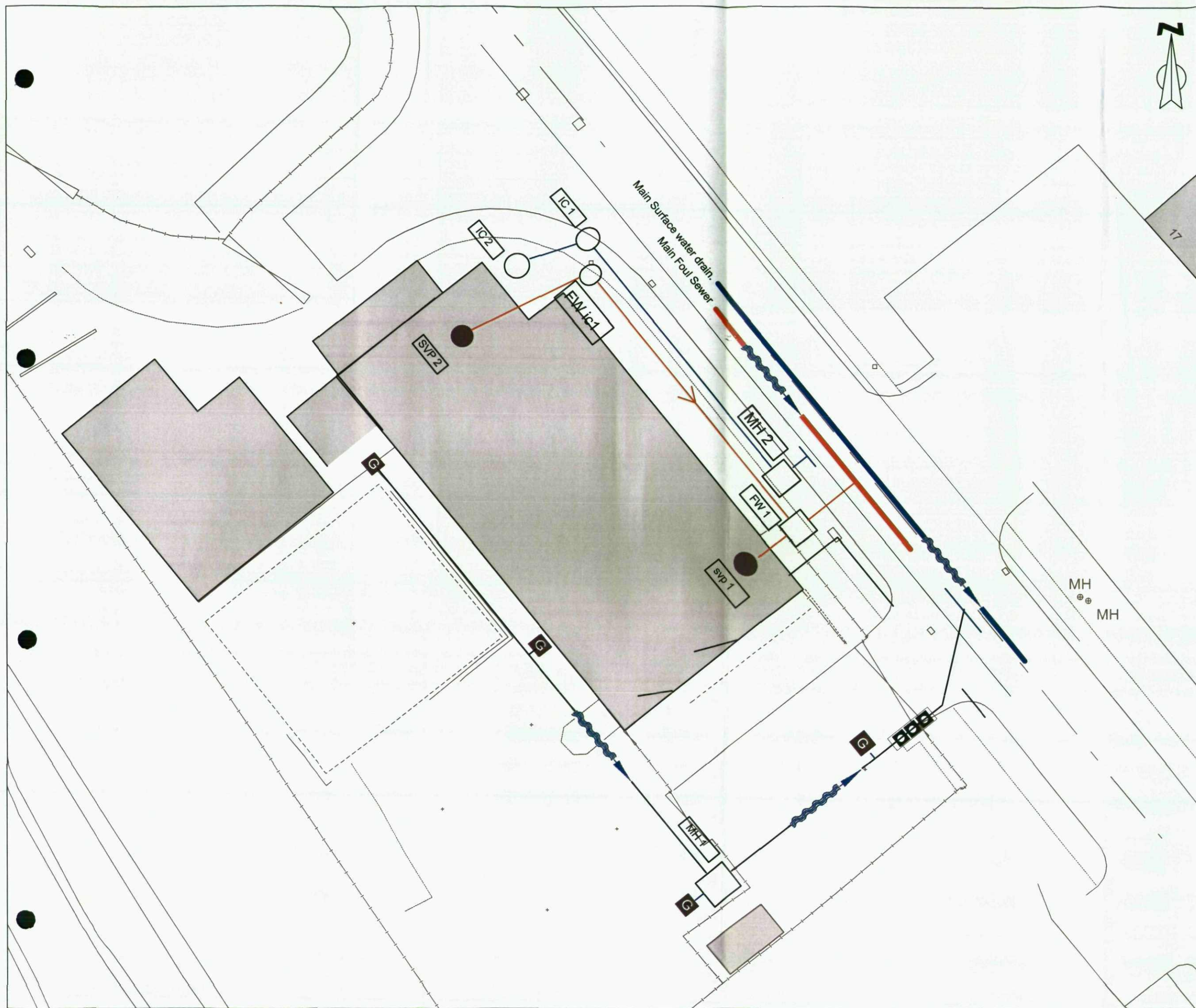


- Key**
- Site Boundary
 - Drainage Features**
 - WATER FLOW 1
 - G GULLY



STEP Business Centre, Wortley Rd, Sheffield, S36 2UH

CLIENT:		GB Cullet Ltd.	
SCALE:	1:250@A3	PROJECT REF:	SHF.1037.001.D.003
DRAWN:	MG	CHECKED:	KS
		DATE:	Oct 2012
PROJECT:		The Cullet Yard	
TITLE:		Existing Onsite Private Drainage Network - Southern Area	
FIGURE NO:		3	

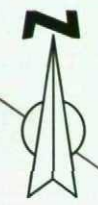
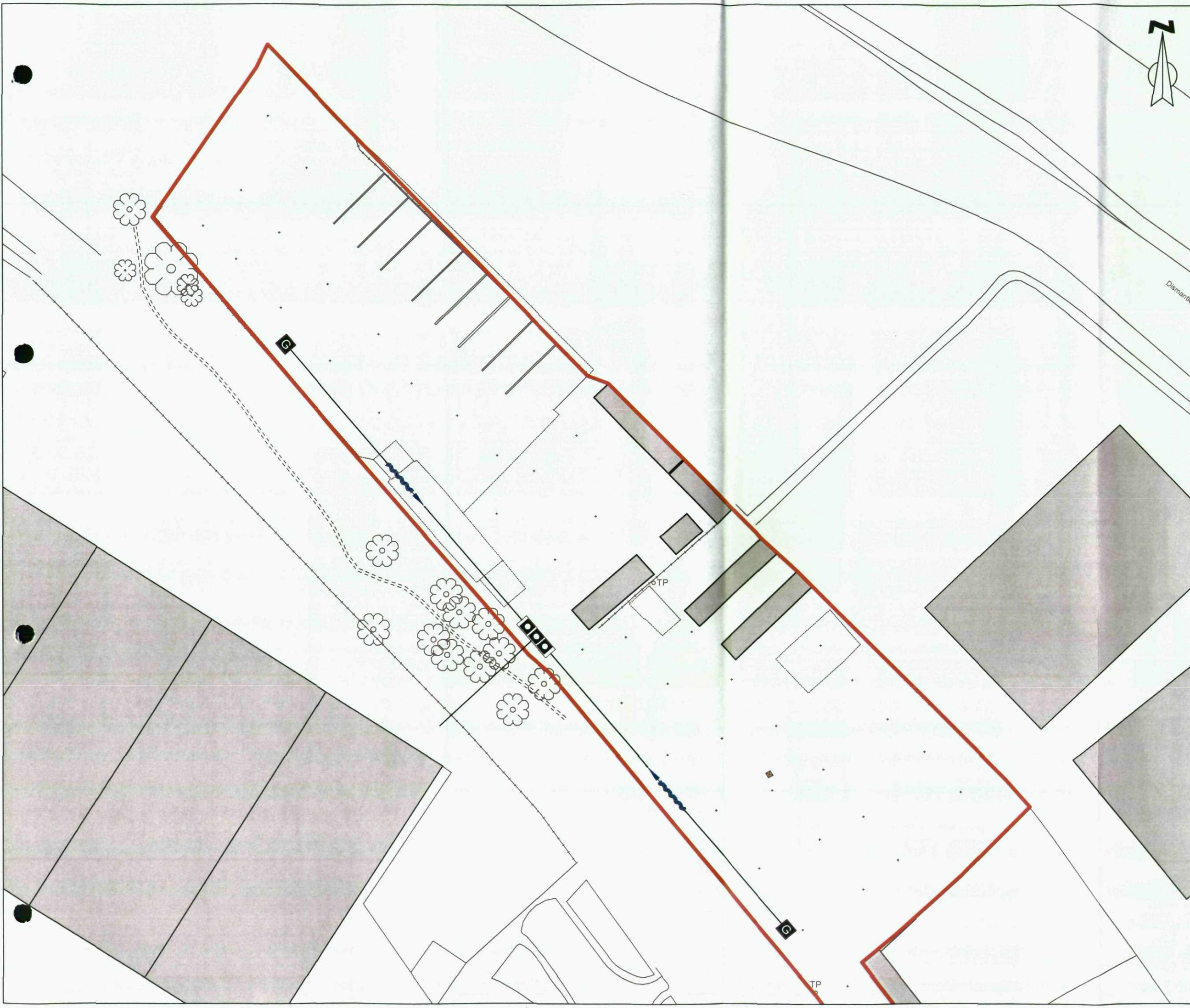


- Key**
- Site Boundary
 - Drainage Features**
 - ~~~~~ WATER FLOW 1
 - PETROL INTERCEPTOR
 - G GULLY



STEP Business Centre, Wortley Rd, Sheffield, S36 2UH

CLIENT:		GB Cullet Ltd.	
SCALE:	1:5,000@A3	PROJECT REF:	SHF.1037.001.D.004
DRAWN:	MG	CHECKED:	KS
PROJECT:		DATE:	Oct 2012
PROJECT:		The Cullet Yard	
TITLE:		Proposed Drainage Network Southern Area	
FIGURE NO:		4	



- Key**
- Site Boundary
 - Drainage Features**
 - WATER FLOW 1
 - PETROL INTERCEPTOR
 - GULLY



STEP Business Centre, Wortley Rd, Sheffield, S36 2UH

CLIENT:		GB Cullet Ltd.	
SCALE:	1:400@A3	PROJECT REF:	SHF.1037.001.D.005
DRAWN:	MG	CHECKED:	KS
		DATE:	Oct 2012
PROJECT:		The Cullet Yard	
TITLE:		Proposed Drainage Network Northern Area	
FIGURE NO:		5	

APPENDIX 1

CCTV Survey

**Project-information**

Project name:
GB CULLET LTD

Contract number:

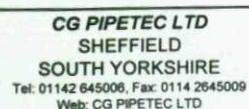
Contact:
GARY CULLET

Date:
07/09/2012

Client **G B CULLET LTD**
Contact: **GARY CULLET**
Position: **BUSINESS OWNER**
Road
Town
County
Telephone:
Fax:
Mobile:
E-Mail:

Site **G B CULLET LTD**
Contact: **GARY CULLET**
Position: **BUSINESS OWNER**
Road **OFF BRADBERRY BALK LANE**
Town **BARNSELY S73 8HR**
County **SOUTH YORKSHIRE**
Telephone:
Fax:
Mobile: **07931 725993**
E-Mail:

Contractor **CG PIPETEC LTD**
Contact: **CRAIG COULSON**
Position: **SITE MANAGER**
Road **UNIT A18, 40 ALISON CRESCENT**
Town **SHEFFIELD**
County **SOUTH YORKSHIRE**
Telephone: **01142 645006**
Fax: **0114 2645009**
Mobile: **07989 526880**
E-Mail: **info@cgpipetec.co.uk**

[illegible]



Legend:

 WATER FLOW 1



Tree_Summer



SOAKAWAY: FOUL WATER



SURFACE WATER



PETROL INTERCEPTOR



RAINWATER PIPE



RODDING EYE



SOIL & VENT PIPE



SOAKAWAY: SURFACE WATER



W.C.



FOUL WATER



Tree_Winter



CESS PIT



GNDFLWC



SYPHON INTERCEPTOR



PIPE RUN



ROAD GULLY



SEPTIC TANK



COMBINED



GULLY



PUMP CH



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 1	PLR: GULLY 1 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

Road: OFF BRADBURY BALK LANE	Division:	start MH: MH/1
Place: BARNSELEY	District:	end MH: GULLY 1
Location: SITE YARD	Tape No.: 001	Total length: 24.9 m

Purpose:	Size/Shape: Circular 100
Use: Surface water	Material: Polyvinyl chloride Pipe length: 6m
Catchment:	Lining: Category:

Comment:

Location details:

1:200 position code observation

grade

MH/1	0.00	ST	Start of Survey
	0.00	MH	Manhole Remark: MH/1
	0.00	WL	Water level, 5 % height/diameter

(Misc)
(Constr)
(Serv) 0



16.80	WL	Water level, 10 % height/diameter	(Serv) 0
19.70	JN	Junction at 12 o'clock, dia 100 mm	(Constr) 0
20.60	WL	Water level, 5 % height/diameter	(Serv) 0
22.80	DE	Debris, 10 % cross-sectional area loss, Remark: POSS GROUT	(Serv) 1
24.40	JDL	Joint displaced Large	(Struct) 2
24.40	OBJ	Obstruction at joint, 20 % height/diameter loss, Remark: SEALING RING	(Serv) 2
24.40	DE	Debris, 20 % cross-sectional area loss	(Serv) 1
24.90	SA	Survey abandoned, Remark: DUE TO JDL	(Misc) 0

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features



Inspection photos

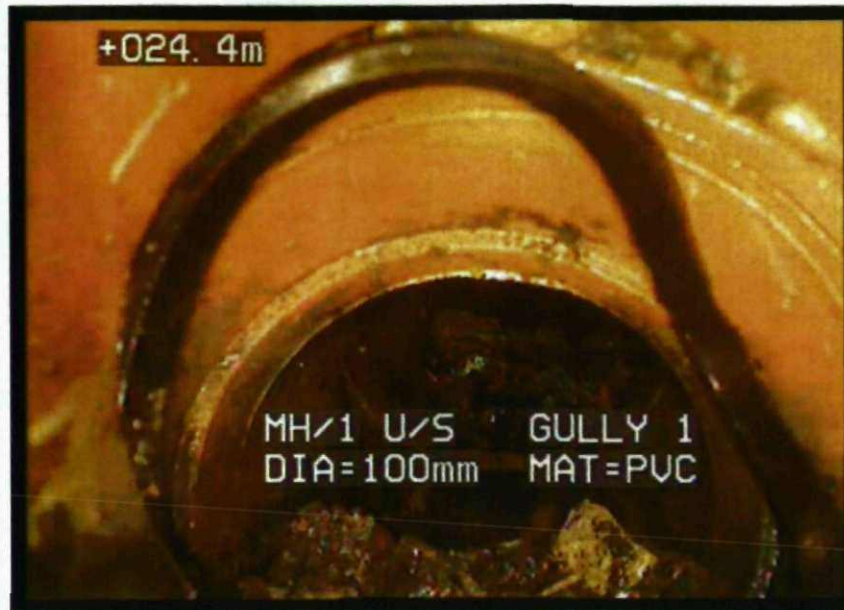
Place:
BARNSELYRoad:
OFF BRADBURY BALK LANEDate:
07/09/2012section number:
1PLR:
GULLY 1 X

Photo: 8_8b, Tape No.: 001
24.4m, Joint displaced. Large



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 2	PLR: MH/1 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

Road: OFF BRADBURY BALK LANE	Division:	start MH: MH/1
Place: BARNSELEY	District:	end MH: MAIN
Location: SITE YARD	Tape No.: 001	Total length: 26.2 m
Purpose:	Size/Shape: Circular 100	
Use: Surface water	Material: Polyvinyl chloride	Pipe length: 6m
Catchment:	Lining:	
Category:		
Comment:		
Location details:		

1:225 position code observation grade

MH/1	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remark: MH/1	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.00	S1 DEG	Debris grease, from 07 to 05 o'clock, 5 % cross-sectional area loss, (Serv) 1	
	4.30	WL	Water level, 10 % height/diameter	(Serv) 0
	18.10	LL	Line of Sewer deviates left, Remark: MARGINAL	(Serv) 0
	18.40	WL	Water level, 20 % height/diameter	(Serv) 0
	18.70	LL	Line of Sewer deviates left, Remark: MARGINAL	(Serv) 0
	18.70	WL	Water level, 25 % height/diameter	(Serv) 0
	18.90	JN	Junction at 03 o'clock, dia 100 mm	(Constr) 0
	21.50	WL	Water level, 50 % height/diameter	(Serv) 0
	21.80	S2 CU	Camera Underwater, Start	(Misc) 0
	26.20	OB	Obstruction, 25 % height/diameter loss, Remark: UNDER WATER	(Serv) 2
	26.20	F1 DEG	Debris grease, from 07 to 05 o'clock, 5 % cross-sectional area loss, (Serv) 1	
	26.20	F2 CU	Camera Underwater, Finish	(Misc) 0
	26.20	SA	Survey abandoned, Remark: DUE TO UNKNOWN OB + CU	(Misc) 0

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 3	PLR: IC1 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

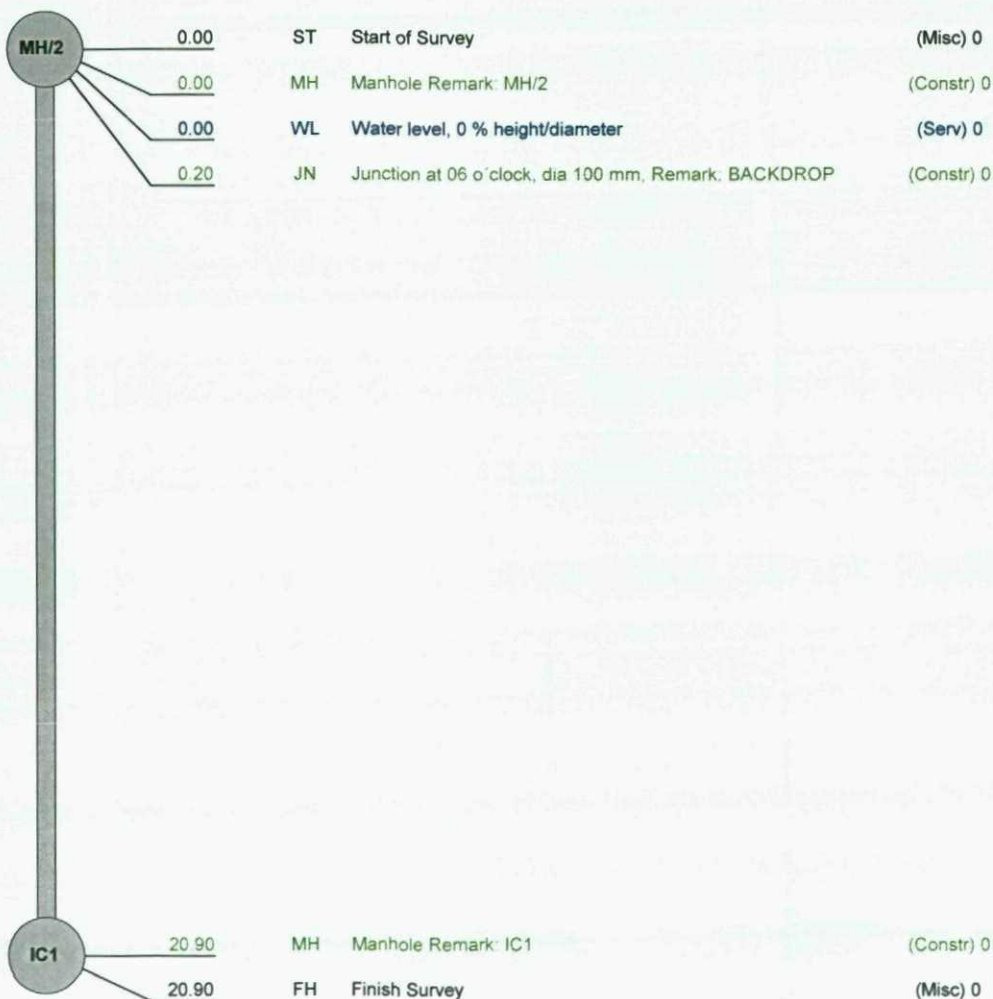
Road: OFF BRADBURY BALK LANE	Division:	start MH: MH/2
Place: BARNLEY	District:	end MH: IC1
Location: SITE YARD	Tape No.: 001	Total length: 20.9 m

Purpose:	Size/Shape: Circular 100
Use: Surface water	Material: Polyvinyl chloride Pipe length: 6m
Catchment:	Lining:
	Category:

Comment:

Location details:

1:175 position code observation grade



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 4	PLR: FWIC X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

Road: OFF BRADBURY BALK LANE	Division:	start MH: FW1
Place: BARNSELEY	District:	end MH: FWIC
Location: SITE YARD	Tape No.: 001	Total length: 24 m

Purpose:	Size/Shape: Circular 100
Use: Foul	Material: Polyvinyl chloride Pipe length: 6m
Catchment:	Lining:
	Category:

Comment:
Location details:

1:200	position	code	observation	grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remark: FW1	(Constr) 0
	0.00	WL	Water level, 0 % height/diameter	(Serv) 0
	0.30	JN	Junction at 06 o'clock, dia 100 mm, Remark: BACKDROP	(Constr) 0
	24.00	MH	Manhole Remark: FWIC	(Constr) 0
	24.00	FH	Finish Survey	(Misc) 0
Structural Defects			Constructional Features	
Service Defects			Miscellaneous Features	



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 5	PLR: SVP1 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

Road: OFF BRADBURY BALK LANE	Division:	start MH: FW1
Place: BARNSELY	District:	end MH: SVP1
Location: SITE YARD	Tape No.: 001	Total length: 1.1 m

Purpose:	Size/Shape: Circular 100
Use: Foul	Material: Polyvinyl chloride Pipe length: 6m
Catchment:	Lining:
	Category:

Comment:
Location details:

1:25	position	code	observation	grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remark: FW1	(Constr) 0
	0.00	WL	Water level, 0 % height/diameter	(Serv) 0
	0.10	JN	Junction at 06 o'clock, dia 100 mm, Remark: BACKDROP	(Constr) 0
	0.20	WL	Water level, 5 % height/diameter	(Serv) 0
	0.70	LU	Line of Sewer deviates up, Remark: CRITICAL	(Serv) 0
	1.10	FH	Finish Survey, Remark: SVP1	(Misc) 0
Structural Defects Service Defects Constructional Features Miscellaneous Features				



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 6	PLR: FW1 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

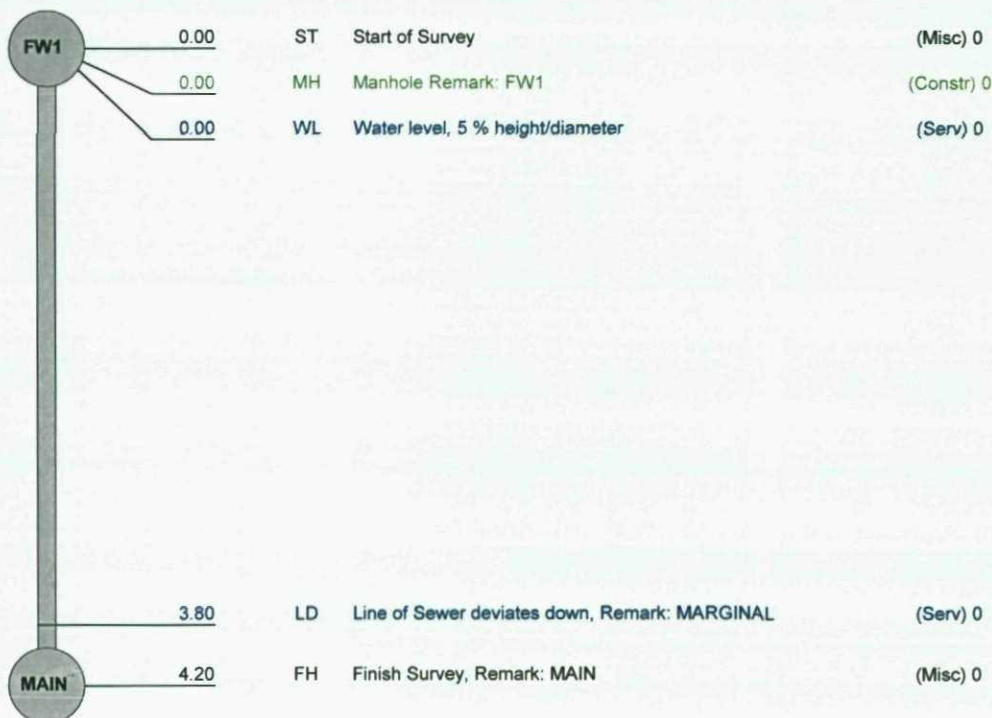
Road: OFF BRADBURY BALK LANE	Division:	start MH: FW1
Place: BARNSELY	District:	end MH: MAIN
Location: SITE YARD	Tape No.: 001	Total length: 4.2 m

Purpose:	Size/Shape: Circular 150
Use: Foul	Material: Vitrified clay Pipe length: 1.8m
Catchment:	Lining:
	Category:

Comment:

Location details:

1:50 position code observation grade



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 7	PLR: SVP2 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

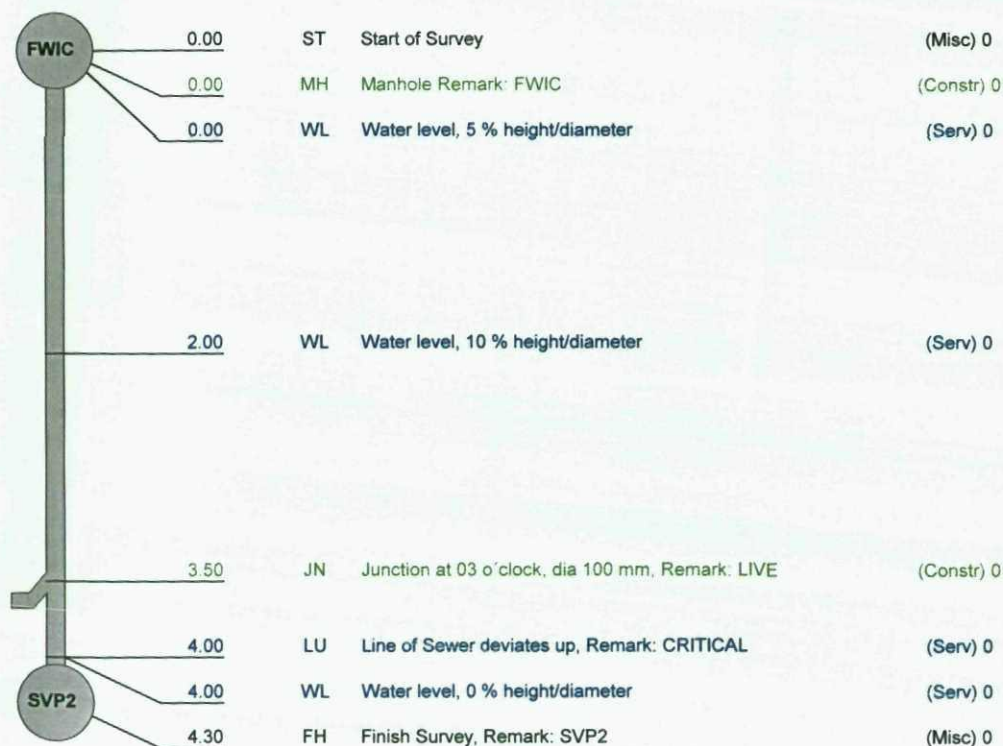
Road: OFF BRADBURY BALK LANE	Division:	start MH: FWIC
Place: BARNSELY	District:	end MH: SVP2
Location: SITE YARD	Tape No.: 001	Total length: 4.3 m

Purpose:	Size/Shape: Circular 100
Use: Foul	Material: Polyvinyl chloride Pipe length: 6m
Catchment:	Lining:
	Category:

Comment:

Location details:

1:50	position	code	observation	grade
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Structural Defects

Constructional Features

Service Defects

Miscellaneous Features



Inspection report

Date: 07/09/2012	Job N°: 001	Weather: Dry	Operator: RV	section number: 8	PLR: IC2 X
Present:	Vehicle: MV08KHZ	Camera: Forward view	Preset:	Cleaned: Yes	Grade:

Road: OFF BRADBURY BALK LANE	Division:	start MH: IC1
Place: BARNLEY	District:	end MH: IC2
Location: SITE YARD	Tape No.: 001	Total length: 6.1 m
Purpose:	Size/Shape: Circular 100	
Use: Surface water	Material: Polyvinyl chloride	Pipe length: 6m
Catchment:	Lining:	
Comment:	Category:	
Location details:		

1:50	position	code	observation	grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remark: IC1	(Constr) 0
	0.00	WL	Water level, 0 % height/diameter	(Serv) 0
	0.10	LL	Line of Sewer deviates left, Remark: MARGINAL	(Serv) 0
	1.20	WL	Water level, 5 % height/diameter	(Serv) 0
	6.10	MH	Manhole Remark: IC2	(Constr) 0
	6.10	FH	Finish Survey	(Misc) 0
Structural Defects		Constructional Features		
Service Defects		Miscellaneous Features		

APPENDIX 2

Environment Agency Correspondence

record of discussion

Project No.	Project Name	Discussion Type	Date
SHF.1037.001	The Cullet Yard	Telephone Conversation	13/08/12
Compiled by	Discipline	Subject	Time
K Serjeant	Drainage	Drainage Assessment	15.30

Attendee	Representing	Contact Details	Ref
Keelan Serjeant	Enzygo Ltd	keelan.serjeant@enzygo.com	KS
Emily Boothby	EA	03708 506 506	EB

Item	Comment	Action
1	Discussions were held with regards to the scale of the proposed development and the required Drainage Assessment	
2	It was agreed that the Drainage Assessment should assess the existing drainage network at the site and whether this would be suitable for the proposed use of the site.	

Page 1 of 1

APPENDIX 3

Barnsley Council Correspondence

Alison

There is a watercourse near the south western boundary of the site which will require protection, the authority would require an easement width of 3 metres measured from the top of the bank on either side of the watercourse.

I am not aware of any flooding issues associated with the site, however there have been incidents of flooding caused by this watercourse further downstream, this watercourse is the former Dearne and Dove canal and as such the authority would resist any new connections to this facility.

I would confirm that to my knowledge the site is not affected by any flood plains from major watercourses in the area.

There are foul public sewers adjacent to the site. Yorkshire Water should be consulted with regard to the discharge of flows from the proposed development to the Public Sewerage network.

There are alternatives to conventional storage for the control of surface water run-off that are favoured by the authority where ground conditions are suitable. Sustainable Urban Drainage techniques (SUD's) tackle surface water run-off problems at source using features such as soakaways, permeable pavements, grassed swales, infiltration trenches, ponds and wetlands to attenuate flood peak flows, produce water quality improvements and environmental enhancements.

The authority seeks to promote the use of SUD's techniques to this site and the authority expects the developer of the site to submit detailed investigations such that the use of SUD's has been fully explored.

There is a Barnsley MBC owned sewer in the access road to the industrial estate, if this sewer is chosen by the developer as a point of discharge for surface water from the site the developer's attention is drawn to the following:

There should be no increase in surface water runoff from the new development. PPS25 recognises that the management of flood risk is not simply restricted to flood plains and that a catchment-wide approach should be employed.

if a new connection to the sewer is proposed, the developer must gain permission from the relevant department in writing prior to any works being carried out, then flows must be attenuated to a maximum of 5 litres/second/hectare.

Any balancing facility should be designed to accommodate a 1 in 30 year flow from the site below ground and a 1 in 100 year flow retained within the site (including an allowance of 30% for climate change), without causing any flooding to buildings.

Should you wish to discuss this matter further please contact me on the telephone number below.

Regards

Wayne Atkins

Senior Engineer - Drainage and Highways
Barnsley Metropolitan Borough Council
Environmental Services
Network Resilience and Asset Management
Westgate Plaza 1
PO Box 603
S70 9FA
Telephone: 01226 772182
Fax: 01226 772196
E-mail: wayneatkins@barnsley.gov.uk

From: DF#Hqylrqp hqw#p dbr=lirC dfhgylrqp hqwifrkn'
Sent: 58#Dsub5345#19=6<
To: Dwnlv#H d|qh
Subject: Ddgg#dgg#Exlgvjv#dwP Wkhov#Hqwhusulh Sdun/HZ rp ez hq#Edugvch|#V:6#;KU

Dear Wayne

Please find attached a letter requesting advice relating to a proposed change of use for the above site, a hard copy of which will follow by post.

Many thanks in advance for any assistance you might be able to provide.

Kind regards, Alison

Alison Chitoriski B.Eng (Hons) CEnv MCIWM
AC Environment Solutions Ltd
Longfields Court
Middlewoods Way
Wharnccliffe Business Park
Carlton
Barnsley
South Yorkshire
S71 3GN

Tel Direct: 01226 630044
Mobile: 07917 526460
alison@ACEnvironment.co.uk
www.ACEnvironment.co.uk
Switchboard: 01226 630000
Fax: 01226 630001

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APPENDIX 4

Yorkshire Water Correspondence

YORKSHIRE WATER PROTECTION OF MAINS AND SERVICES - CLEAN WATER

1. Please note the positions of clean water apparatus shown on the enclosed plans are believed to be correct. However, Yorkshire Water (YW) will accept no responsibility in the event of any inaccuracy or omission. The actual position of such apparatus and that of service pipes which have not been indicated must be established on site by contacting the Customer Helpline (0845 124 24 24) for water and (0845 120 84 82) for sewerage.

2. To enable future repair works to be carried out without hindrance; any pipe, cable, duct, etc. installed parallel to a water main or service pipe should not be installed directly over or within 300mm of a water main or service pipe. Where a pipe, cable, duct, etc. crosses a main or service it should preferably cross perpendicular or at an angle of no less than 45° and with a minimum clearance of 150mm. These requirements apply to activities within an existing highway and are relevant to the installation of pipes, cables, ducts, etc. up to and including 250mm in diameter. Necessary protection measures for installations greater than 250mm in diameter and/or in private land will need to be agreed on an individual basis.

Installations within a new development site must comply with the National Joint Utilities Group publication Volume 2: NJUG Guidelines On The Positioning Of Underground Utilities Apparatus For New Development Sites.

3. All excavation works near to YW apparatus should be by hand digging only.

4. Backfilling with a suitable material to a minimum 300mm above YW apparatus is required.

5. If surface levels are to be decreased/increased significantly the effects on existing apparatus will be carefully considered and if any alterations are necessary, the costs of the alterations will be recharged to you in full. Outlets on fire hydrants must be no more than 300mm below the new levels and all surface boxes must be adjusted as part of the scheme.

6. Adequate support must be provided where any works pass under YW apparatus.

7. Jointing chambers, lighting columns and other structures must be installed in such a way that future repair or maintenance works to YW apparatus will not be hindered.

8. Apparatus such as; railings, sign posts, etc. must not be placed in such a way that they prevent access to or full operation of controlling valves, hydrants or similar apparatus. Care must also be taken not to bury or cover chamber lids for similar reasons.

9. Explosives shall not be used within 100 metres of any Yorkshire Water Services apparatus or installations.

10. Vibrating plant should not be used directly over any apparatus.

11. **Under no circumstances** should thrust boring or similar trenchless techniques commence until the actual position of the Company's mains/services along the proposed route have been confirmed by trial holes.

12. Any alterations to the highway should be notified following the procedures outlined in the New Road and Street Works Act 1991 Code of Practice; Measures Necessary Where Apparatus Is Affected By Major Works (Diversiory Works).

13. Should YW incur any costs as a result of non-compliance with the above, all costs will be rechargeable in full.

14. In accordance with the New Roads and Street Works Act 1991, Chapter 22, Part 3, Section 80. The location of any identified YW asset "*which is not marked, or is wrongly marked, on the records made available*" should be communicated back to Yorkshire Water. The location of the apparatus should be identified on copies of the supplied plans which should be returned to Yorkshire Water with photographic supporting evidence where possible.

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