

7. Appendix B

7.1. Consultation with United Utilities

7.2. Consultation with Liverpool City Council

Swift, Andrew (SKM)

From: Lunt, John <John.Lunt@uuplc.co.uk>
Sent: 21 November 2013 14:47
To: Swift, Andrew (SKM)
Subject: RE: Anfield Redevelopment

Hi Andrew,

I can confirm that UU will not impose any restrictive discharges over and above the existing regime the only thing I would ask you to bear in mind is that we would not expect any new connections and or any potential re-routing of flows in to smaller diameter systems than those currently being served.

If I can be of any further assistance in the meantime then please don't hesitate to get in touch.

Regards,

John Lunt
Developer Query Engineer
DDI – 01925 679411

From: Swift, Andrew (SKM) [<mailto:ASwift@globalskm.com>]
Sent: 21 November 2013 12:31
To: wastewaterdevelopmentservices@uuplc.co.uk
Cc: Lunt, John; Day, Andrew W (SKM)
Subject: Anfield Redevelopment

Hi John,

Thank you for calling me back, I understand from our conversation that due to the amount of hard standing in the area and due to their only being combined sewers within the vicinity that there will be no restriction to the proposed outfall. Can you please confirm?

We will issue drawings at certain design stages to discuss the progress and hopefully you will be able to flag up any problems that you foresee at that time.

Kind regards,

Andrew Swift
Senior Civil Engineer
BSc (Hons)

Sinclair Knight Merz
4th Floor, Metro, 33 Trafford Road, Salford, M5 3NN
T +44 (0)161 875 4352 **F** +44 0161 873 7115 **E** ASwift@globalskm.com
www.globalskm.com

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=====

Vicente, Pedro

From: McEvoy, Feargal <Feargal.McEvoy@liverpool.gov.uk>
Sent: Tuesday, 15 April 2014 1:53 PM
To: 'Sam Ryan'
Cc: Vicente, Pedro; Butterworth, Grant
Subject: RE: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Categories: Red Category

Hi Sam

I have just spoken to Laura Gilmore (Drainage) and given UU's comments she is happy with the drainage strategy as proposed (ie: like for like basis).

Regards

Feargal McEvoy | Principal Planning Officer

Liverpool City Council | Municipal Buildings | Dale Street | Liverpool | L2 2DH

T: 0151 233 3021 | E: feargal.mcevoy@liverpool.gov.uk

Online: www.liverpool.gov.uk



From: Sam Ryan [mailto:sam.ryan@turley.co.uk]
Sent: 11 April 2014 09:49
To: McEvoy, Feargal
Cc: pvicente@globalskm.com; Butterworth, Grant; Ellen.Freegard@christalmanagement.co.uk
Subject: FW: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions
Importance: High

Feargal

Further to our earlier telephone conversation I would be grateful if you would provide us with assistance relating to the drainage strategy for the stadium expansion.

You will be aware that the Laura Gilman has provided a response (attached and email chain below) stating that the council *would in the very least want to see a reduction in the surface water runoff from this site.*

As we discussed, the site is located in an area where ground permeability conditions are very low due to the shallow depths at which sandstone can be found. Consequently SUDS systems have not been considered and the proposed network has been developed on a 'like-for-like' basis where discharge conditions of the existing site are not exceeded. The design accounts for additional capacity for future climate change (CC) rainfall increase offering no flooding for 1in30 years return period (+CC) events and containment of flooding resulting from 1in100 years return period (+CC) events.

It is proposed that the surface water drainage design for the extension of the LFC Stadium's Main Stand is to drain the new stand's roof and surrounding impermeable surfaces by means of an underground drainage network which is to discharge into a United Utilities combined sewer located on Back Rockfield Road.

United Utilities has already confirmed that they would not require an improvement to the run-off rate and that the proposed drainage strategy is acceptable to them.

Given that there are no policy or statutory requirements to achieve 'betterment' as requested by your drainage engineers, are you able to confirm that the proposed strategy is acceptable?

An early response would be appreciated as we need to finalise the drainage strategy and complete the ES chapter relating to this matter (chapters are being issued to counsel for legal review pre-Easter).

I look forward to receiving your response

Kind regards

Sam

From: Gilmore, Laura [<mailto:Laura.Gilmore@liverpool.gov.uk>]
Sent: Friday, 4 April 2014 4:26 PM
To: McEvoy, Feargal
Cc: Vicente, Pedro
Subject: RE: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Pedro,

Please accept my apologies for my delayed response. We would support any discharge restrictions that United Utilities impose but as they have not imposing a restriction for this site we would in the very least want to see a reduction in the surface water runoff from this site. Please find our data disclaimer and a plan attached from our surface water flood model which shows susceptibility to flooding for a 1 in 200 year event. We would also need confirmation that all surface water is to managed and controlled on site and will not increase flooding elsewhere.

Please do not hesitate to contact me if you need to discuss this further.

Many thanks,

Laura

Laura Gilmore | Drainage Engineer | Highways and Transportation
Liverpool City Council | Municipal Buildings | Dale Street | Liverpool | L2 2DH
T: 0151 233 2806 M: 07921943033

E: laura.gilmore@liverpool.gov.uk
Online: www.liverpool.gov.uk



From: McEvoy, Feargal
Sent: 04 April 2014 13:58
To: Gilmore, Laura

Cc: 'PVicente@globalskm.com'
Subject: FW: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Hi Laura

Could you help Pedro with this query.

Thanks

Feargal McEvoy | Principal Planning Officer

Liverpool City Council | Municipal Buildings | Dale Street | Liverpool | L2 2DH

T: 0151 233 3021 | E: feargal.mcevoy@liverpool.gov.uk

Online: www.liverpool.gov.uk



From: Vicente, Pedro [<mailto:PVicente@globalskm.com>]
Sent: 02 April 2014 16:29
To: McEvoy, Feargal
Cc: Day, Andrew W
Subject: RE: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Hi Feargal,

Thank you for your assistance. I have still not heard from your drainage department, would you please request that they contact me so I can inform the client on the decision.

Kind regards,
Pedro

Pedro Vicente | Jacobs SKM | Civil Engineer | Infrastructure | + 44.161.875.4346 | + 44.161.873.7115 fax |
pedro.vicente@jacobs.com | www.jacobsskm.com

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From: McEvoy, Feargal [<mailto:Feargal.McEvoy@liverpool.gov.uk>]
Sent: Tuesday, 25 March 2014 12:00 PM
To: Vicente, Pedro
Subject: RE: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Hi Pedro

I have re-emailed the Drainage Officer but she is on leave until this Thursday, I will chase her up for a response on her return.

Regards

Feargal McEvoy | Principal Planning Officer

Liverpool City Council | Municipal Buildings | Dale Street | Liverpool | L2 2DH

T: 0151 233 3021 | E: feargal.mcevoy@liverpool.gov.uk

Online: www.liverpool.gov.uk



From: Vicente, Pedro [<mailto:PVicente@globalskm.com>]
Sent: 25 March 2014 11:46
To: McEvoy, Feargal
Cc: Day, Andrew
Subject: RE: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Hello Feargal,

Further to my email last week have you had any feedback from your drainage department regarding the above?

Regards,
Pedro

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pedro.vicente@jacobs.com | www.jacobsskm.com

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From: Vicente, Pedro (SKM)
Sent: Tuesday, 18 March 2014 3:56 PM
To: 'feargal.mcevoy@liverpool.gov.uk'
Cc: Day, Andrew W (SKM); Ling, Nick (SKM); Hazell, Robert (SKM)
Subject: UN12544 - LFC Redevelopment - Proposed drainage discharge restrictions

Feargal,

Further to our phone conversation this morning regarding the above project please find noted below details of our query as agreed.

We are looking into the drainage design for the redevelopment works at Liverpool FC stadium. As mentioned earlier we have contacted United Utilities regarding discharge restrictions for the site; we now have written confirmation that United Utilities will not imposed discharge restrictions for the site.

Before we proceed with the drainage design we would like to know what is Liverpool City Council's discharge policy for the site?

If you have any queries or wish to discuss please don't hesitate to contact me.

Kind regards,
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Sam Ryan
Director



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Online: www.liverpool.gov.uk

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Online: www.liverpool.gov.uk



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Sent: 02 April 2014 16:29
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Feargal McEvoy | Principal Planning Officer

Liverpool City Council | Municipal Buildings | Dale Street | Liverpool | L2 2DH

T: 0151 233 3021 | E: feargal.mcevoy@liverpool.gov.uk

Online: www.liverpool.gov.uk



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8. Appendix C

8.1. Proposed Drainage Layout - Phase 1

8.2. Proposed Drainage Layout - Phase 2

- | | |
|--|--|
| | EXISTING COMBINED PUBLIC SEWER TO BE AMONICED |
| | EXISTING COMBINED PUBLIC SEWER TO BE AMONICED |
| | EXISTING PRIVATE COMBINED DRAINAGE |
| | EXISTING PRIVATE COMBINED DRAINAGE TO BE AMONICED |
| | EXISTING PRIVATE SURFACE WATER DRAINAGE |
| | EXISTING PRIVATE SURFACE WATER DRAINAGE TO BE AMONICED |
| | PROPOSED DIVERSION |
| | PROPOSED TEMPORARY DIVERSION |
| | PROPOSED SURFACE WATER DRAINAGE |
| | PROPOSED FLOOD WATER DRAINAGE |
| | PROPOSED SEVERITY OF ADOPTION |

NOTES

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4. ALL SURVEYED INFORMATION INCLUDING LEVELS AND LAYOUT IS PROVIDED BY OTHERS.
5. ALL EXISTING AND PROPOSED DIMENSIONS, LEVELS AND LOCATIONS TO BE SHOWN ON THIS DRAWING ARE TO BE TAKEN FROM THE SURVEYING ENGINEER'S REPORT TO THE ENGINEER.
6. THE BUILDING AND SITE LAYOUT IS PROVIDED BY THE ARCHITECT.
7. COVER LEVELS ARE TO BE DETERMINED IN LINE WITH THE ARCHITECT EXTERNAL FINISH LEVELS.
8. RAIN WATER PIPE LOCATIONS TO BE COORDINATED WITH THE ARCHITECT AND SYSTEM DESIGNING ASSUMES NONE SYPHONIC AREAS ARE TO BE REINTEGRATED IN EXISTING VEGETATION AND OPEN FIELD AREAS ARE TO BE SETTING BACK TO EXISTING CONDITION, TOPSOILED AND SEEDED.
9. ALL WORKS, WORKMANSHIP AND MATERIALS IN PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION FOR DRAINAGE CONSTRUCTION IN THE VILLAGE POLICED BY THE LOCAL RESEARCH COMMISSION.
10. ALL ADJUT PAVE DRAINAGE IS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF "SLOPES FOR ADJUTION (17TH EDITION)
11. ALL PPEWORK TO BE THERMOPLASTIC STRUCTURED WALL PIPE, TO COMPLY WITH BS EN 1228-1 AND BS EN 1228-2, AND EN 1228-3 FOR 800mm DIA. ALL PPEWORK TO BE DESIGNED FOR EXISTING TYPICAL SOIL CERTIFICATION.
12. THE ENTIRE COMPLETED DRAINAGE NETWORK IS TO BE THOROUGHLY CLEANED OUT BY HIGH PRESSURE JETTING AND SUBJECT TO A CCTV SURVEY TO BE COMPLETED BY THE CONTRACTOR TO BE SUBMITTED TO THE EMPLOYER'S AGENT PRIOR TO SUBMIT ANAL COMPLETION AND END OF MAINTENANCE CERTIFICATE BEING ISSUED.
13. ALL GULLIES ARE TO BE CLEANED OUT AND FILLED WITH WATER TO TOP OF PIP PRIOR TO COMPLETION.
14. ALL GULLY AND CHANNEL DRAIN CONNECTIONS TO BE 500A WITH A MINIMUM GRADIENT OF 1:80 UNLESS SHOWN OTHERWISE.
15. ALL PPEWORK NOT DIRECTLY CONNECTED TO A MANHOLE MUST BE PROVIDED WITH ROUGH ACCESS.
16. PH-1'S RELATE TO OUTGOING MAN PIPE, WHERE INCOMING PIPES ARE OF SMALLER DIA. TO OUTGOING PIPE, THEY ARE TO BE POSITIONED WITH THE PPEWORK UNLESS OTHERWISE SPECIFIED.
17. CONCRETE SLOPING TO TRENCHES IS TO BE PROVIDED TO THE MINIMUM GRADIENT OF 1:80 UNLESS SHOWN OTHERWISE. VEHICULAR AREAS TO BE COVERED BY COVER OF LESS THAN 0.50 BELOW NON VEHICULAR AREAS.
18. ALL INLET MANHOLE COVERS ARE TO BE 600mm DIA.
19. FOR UNDESIRABLE DRAINAGE REFER TO DRAWING UNDS45A-DEC-00-912.

	A	28.04.	DATE
			REV

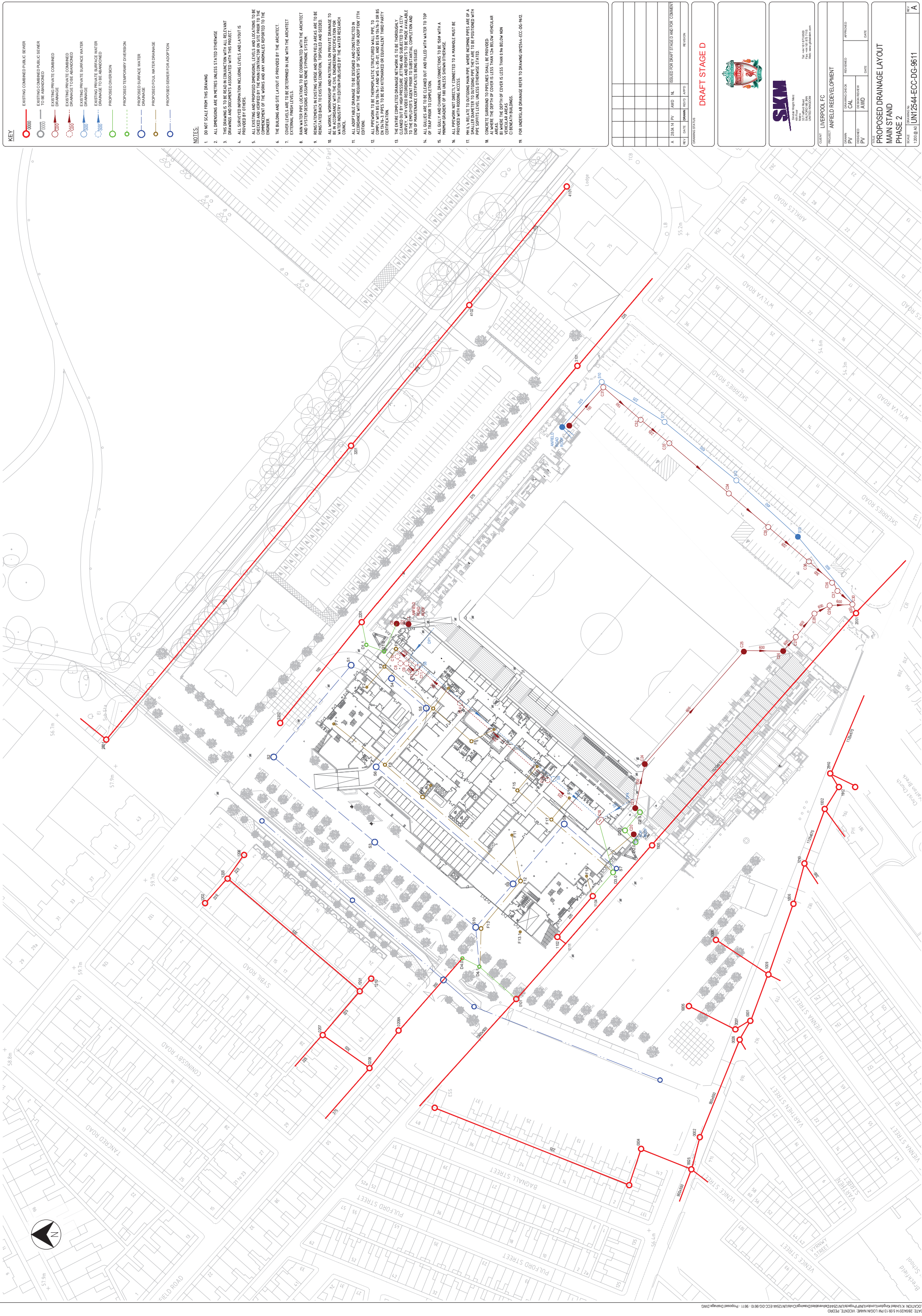
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Fax: +44 161 873 7116
Web: www.globalism.com

CLIENT	L
PROJECT	A
DRAWN	PV
DESIGNED	PV

TITLE	PROF
	MAIN
	PHAS
SCALE	1:200 @ A0



KEY

- EXISTING COMBINED PUBLIC SEWER TO BE ABANDONED
- EXISTING COMBINED PUBLIC SEWER TO BE ABANDONED
- EXISTING PRIVATE COMBINED DRAINAGE
- EXISTING PRIVATE COMBINED DRAINAGE TO BE ABANDONED
- EXISTING PRIVATE SURFACE WATER DRAINAGE
- EXISTING PRIVATE SURFACE WATER DRAINAGE TO BE ABANDONED
- PROPOSED DIVERSION
- PROPOSED TEMPORARY DIVERSION
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED FOUL WATER DRAINAGE
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 - THE BUILDING AND SITE LAYOUT IS PROVIDED BY THE ARCHITECT
 - COVER LEVELS ARE TO BE DETERMINED IN LINE WITH THE ARCHITECT EXTERNAL FINISH LEVELS.
 - RAIN WATER PIPE LOCATIONS TO BE COORDINATED WITH THE ARCHITECT AND SYSTEM DESIGN ASSUMES NONE SPYING SYSTEM.
 - REINSTATEMENTS IN EXISTING VERGE AND OPEN FIELD AREAS ARE TO BE REINSTATED BACK TO EXISTING CONDITION, TOPSOILED AND SEED.
 - ALL WORKS, WORKMANSHIP AND MATERIALS ON PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION FOR WATER INDUSTRY 7TH EDITION PUBLISHED BY THE WATER RESEARCH COUNCIL.
 - ALL PRIVATE DRAINAGE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF SEWERS FOR ADOPTION 17TH EDITION.
 - ALL PIPEWORK TO BE THERMOPLASTIC STRUCTURED WALL PIPE TO COMPLY WITH BS EN 14741-1 AND BS EN 14741-2, AND BS EN 14741-3 OR BS EN 14741-4 TO BE SUSTAINABLE EQUIVALENT THIRD PARTY CERTIFICATION.
 - THE EXISTING COMBINED DRAINAGE NETWORK IS TO BE THOROUGHLY SURVEYED WITH VIDEO RECORDINGS AND REPORTS TO BE MADE AVAILABLE TO ALL PARTIES PRIOR TO COMMENCEMENT OF THE WORKS. THE END OF MAINTENANCE CERTIFICATE BEING ISSUED.
 - ALL GULLIES ARE TO BE CLEANED OUT AND FILLED WITH WATER TO TOP OF TRAP PRIOR TO COMPLETION.
 - ALL GULLY AND CHANNEL DRAIN CONNECTIONS TO BE 500A WITH A MINIMUM GRABENT OF 100 UNLESS SHOWN OTHERWISE.
 - ALL PREWORKS NOT DIRECTLY CONNECTED TO A MANHOLE MUST BE PROVIDED WITH ROADING ACCESS.
 - MH 1.2 RELATE TO OUTGOING MAIN PIPE WHERE INCOMING PIPES ARE OF A SMALLER DIAMETER TO OUTGOING PIPE THEY ARE TO BE POSITIONED WITH PIPE JOINTS LEVEL UNLESS OTHERWISE STATED.
 - CONCRETE SURROUND TO PIPELINES SHALL BE PROVIDED AT WHERE THE DEPTH OF COVER IS LESS THAN 2m BELOW VEHICULAR TRAFFIC. THE DEPTH OF COVER IS LESS THAN 9m BELOW NON VEHICULAR TRAFFIC.
 - FOR UNDERLAB DRAINAGE REFER TO DRAWING UNITS44-ECC-DG-9612.

REV	DATE	DESCRIPTION	BY	CHKD	APPD
A	2024-11-14	ISSUED FOR DRAFT STAGE D AND FOR COMMENT			

DRAFT STAGE D

CLIENT: LIVERPOOL FC
PROJECT: ANFIELD REDEVELOPMENT

DRAWN: PV	CHECKED: CAL	APPROVED:
DESIGNED: PV	DATE:	DATE:

DATE: 28/04/2024 5:08:13 PM LOGON NAME: VICENTE_PEBERO
LOCATION: C:\Users\kingston\OneDrive\Documents\Projects\N2544\N2544-ECC-DG-9613-1811 - Proposed Drainage DWG

PROPOSED DRAINAGE LAYOUT
MAIN STAND
PHASE 2

SCALE: 1:200 @ A3
DRAWING NO: UNITS44-ECC-DG-9611
REV: A

Appendix D. Environment Agency Correspondence

Fowler, Emily

From: Gamble, Richard J
Sent: 10 March 2014 08:46
To: Fowler, Emily
Subject: FW: PROTECT-STH1887SR
Attachments: STH1887SR_SurfaceWaterFloodMap.pdf; Standard_Notice1.pdf

Emily

Please see attached and email concerning LFC.

Richard

Our Ref: IA/RJG/

Richard Gamble, Flood Risk Management Team Leader Mott MacDonald, Environment Division Demeter House, Station Road Cambridge CB1 2RS Direct Dial: 01223 463619
Switchboard: 01223 463500

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8-10 Sydenham Road
Croydon, Surrey, CR0 2EE
England

From: NW Info Requests [<mailto:NWInfoRequests@environment-agency.gov.uk>]
Sent: 07 March 2014 12:36
To: Gamble, Richard J
Subject: PROTECT-STH1887SR

Dear Richard

Request for information under the Freedom of Information Act 2000 (FOIA) / Environmental Information Regulations 2004 (EIR)

Thank you for your enquiry regarding flood risk information for the Liverpool FC Stadium expansion.

We have no record of flooding affecting this site. However, this does not mean flooding has not occurred in the past or that it will not flood in the future. We recommend that you also contact United Utilities and Liverpool City Council who may hold additional information (the former especially in relation to sewer flooding).

Attached is a copy of the Updated Flood Map for Surface Water Flooding for this location. Please be aware that Liverpool Council may have additional information related to surface water flood risk, and we strongly recommend that you contact them in relation to this.

I hope that we have correctly interpreted your request. Please see the attached Standard Notice or licence for details of permitted use.

We respond to requests for recorded information that we hold under the Freedom of Information Act 2000 (FOIA) and the associated Environmental Information Regulations 2004 (EIR).

If you are not satisfied with our response to your request for information you can contact us within 2 calendar months to ask for our decision to be reviewed.

Yours sincerely

Sarah

Sarah Rogerson
Customers and Engagement Officer
Tel: 01768 215764
NWinforequests@environment-agency.gov.uk

We would be really grateful if you could spare five minutes to help us improve our service. Please click on the link below and fill in our survey – we use every piece of feedback we receive:
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Appendix E. United Utilities Correspondence

Swift, Andrew (SKM)

From: Lunt, John <John.Lunt@uuplc.co.uk>
Sent: 21 November 2013 14:47
To: Swift, Andrew (SKM)
Subject: RE: Anfield Redevelopment

Hi Andrew,

I can confirm that UU will not impose any restrictive discharges over and above the existing regime the only thing I would ask you to bear in mind is that we would not expect any new connections and or any potential re-routing of flows in to smaller diameter systems than those currently being served.

If I can be of any further assistance in the meantime then please don't hesitate to get in touch.

Regards,

John Lunt
Developer Query Engineer
DDI – 01925 679411

From: Swift, Andrew (SKM) [<mailto:ASwift@globalskm.com>]
Sent: 21 November 2013 12:31
To: wastewaterdevelopmentservices@uuplc.co.uk
Cc: Lunt, John; Day, Andrew W (SKM)
Subject: Anfield Redevelopment

Hi John,

Thank you for calling me back, I understand from our conversation that due to the amount of hard standing in the area and due to their only being combined sewers within the vicinity that there will be no restriction to the proposed outfall. Can you please confirm?

We will issue drawings at certain design stages to discuss the progress and hopefully you will be able to flag up any problems that you foresee at that time.

Kind regards,

Andrew Swift
Senior Civil Engineer
BSc (Hons)

Sinclair Knight Merz
4th Floor, Metro, 33 Trafford Road, Salford, M5 3NN
T +44 (0)161 875 4352 **F** +44 0161 873 7115 **E** ASwift@globalskm.com
www.globalskm.com

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