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12 December 2022

Christophe Teevan Cairn Homes 45 Mespil Road Dublin 4 D04 W2F1

RE: 210026 - Newcastle South Childcare Facility

Dear Christophe

In support of the planning submission to South Dublin County Council and as required for the above referenced site, we set out below DBFL's civil engineering element of the planning submission. It should be noted that the subject application benefits from primary road, drainage and watermain infrastructure granted under planning reference ABP-305343-19. No significant changes are proposed to this previously granted infrastructure as part of this planning submission as outlined in the following paragraphs.

Surface Water Drainage

The surface water drainage design approved under planning Reference ABP-305343-19 was designed to include the area within this planning application. It is proposed to connect the proposed creche to the surface water sewer network constructed under planning reference ABP-305343-19 as shown on drawing number 210026-DBFL-CS-SP-SK-C-1201 Site Services Layout - Childcare Facility . The surface water attenuation and outfalls have been approved and constructed under planning reference ABP-305343-19.

DBFL Consulting Engineers Limited trading as DBFL Consulting Engineers

VAT. No. IE6355828Q Company No. 335828





Colm Doyle BE CEng MIE Fergal English 8E CEng MIE John Haves ascena CEna MIEI FConsEl as Jennings BEng MSc MIHT CMILT John Keane BScEng CEng MICE MIEI FConsEl Tracy Kearney BA BAI MSc CEng MIEI Jim Lawler (Managina) BE DipComp CEng MIEI FConsEl Dan Reilly Beng Ceng MIEI MCIWEM MIHT FConsEl Kevin Sturgeon Beng MSc CEng PGrod

Paddy G Darling BE BA CEng MIE

Associate Directors

Liam Brehon ascena CEna Mistructé DioH&S/Const) MIEI Aiden Burke SE MMangtSc CEng Int PE (Iri) MIEI Sarah Curran BA BAI CEng MIEI Noel Gorman BE CEng MIE endan Keogh BA BAI PGrad Shane McGovern BE CEng MIStructe MIEI Colm Quirke BE CEng PMP MIE Andrew Robertson Beng CEng MCIHT MSoRSA-FIEL David Sheehan BScEng CEng MIEI

David Bourke BE MSc PGCert CEno MIE Kevin Burke BA MSc Kevin Coughlan Beng MSc CEng MiStructe MIEI David Dolan BE CEng MIE Aimee Dunne MEng BEngte Chash Gaianavaka BEng CEna Mistructe David Hutchinson Beng Ceng MIE Mark Kelly sal Ma MS- PGend Andrew Lacey BE ME CEng MIE Brendan Manning BEng CEng MIEI Laura McLoughlin Beng Ceng MEE Danny Pio Murphy Beng Meng PG odDip CEng MIEI MCIHT MTPS Tanya Volschenk Beng Ceng MIEI Karl Von Loggerenberg seng Msc CEng Mistructe MIEI



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Foul Drainage

Similar to the proposed surface water drainage, the foul drainage design submitted under planning reference ABP-305343-19 and approved by Irish Water was designed to include the area within this planning application. The constructed foul sewer drainage has capacity for the revised creche.

Water Supply and Distribution

The watermain design submitted under planning reference ABP-305343-19 and approved by Irish Water was designed to include the area within this planning application. The constructed watermains have capacity for the revised creche.

Flood Risk

The OPW Eastern CFRAM flood maps have been consulted to establish the flood zone of the subject site. It can be seen from the flood maps (Appendix A) that the subject site is in Flood Zone C (low risk).

We trust the above provides the relevant information in support of the overall planning submission. Should you require any further support information please do not hesitate to contact us.

Yours sincerely

Conor O' Loughlin

Conor O'Loughlin
DBFL CONSULTING ENGINEERS

Enclosed Drawing: 210026-DBFL-CS-SP-SK-C-1201 Site Services Layout - Childcare Facility

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Directors

Bill Bates Beng MSC PPD Ceng MEE MICE
Colm Doyle BE Ceng MIEI
Fergal English BE CEng MIEI
Paul Forde (Dolmmon) BE CEng Euring RBruself FIEI FCon
John Hayes Becing Cing MIEI FConstil
Thomas Jennings Beng MSC MISH FConstil
John Keame Beding CEng MICE MIEI FCONSTI
Tracy Kearmey Ba Ban MSC CEng MIEI
Robert Kellly Ban MA PGOODTO CENg MIEI
Jim Lawifer Manoging BE Dyfomp CEng MIEI FConstil
John Meaney AMSINICE EIEng
Dan Reilly Bing CEng MIEI MCWEM MISH FCONSTI
Kevin Sturgeron Bing MSC CEng Fonodition MIEI
Kevin Sturgeron Bing MSC CEng Fonodition MIEI
FCONSTI

Paddy G Darling BE BA CENG MISS

Associate Director

Martin Bennett at Paradop Ceng Mills
Liam Brehon asseing Ceng Mistracet Diph465(Const) Mills
Aiden Burke at Mikhongtic Ceng Int Fe (Hr) Mills
Sarah Curran as RAI Ceng Mills
Noel Gorman at Ceng Mills
Noel Gorman at Ceng Mills
Brendan Koogh as Asi Pavadop Ceng Mills
Shane McGovern at Ceng Mistract Mills
Colm Quirke at Ceng Mills
Andrew Robertson Beng Ceng Mills Missess Fiel
David Sheehan Basking Ceng Mills
Neil Willson as Asi Ceng Mills

Associates

Kevin Ahern sting Ceng MIEI
David Bourke is Mis Procent Ceng MIEI
Conor Brady sting Ceng Mishinecti MIEI
Kevin Burke ba Mise
John Carr se Ming Cring Mishinecti MIEI
Kevin Coughlan sting Gring Mishinecti MIEI
Kevin Coughlan sting Mish Ceng Mishinecti MIEI
Kevin Coughlan sting Mish Ceng Mishinecti MIEI
Kevin Coughlan sting Mish Ceng Mishinecti MIEI
Chris Curley IT/Bish Manoager
David Dolan sticing Miel
Aimee Dunne Ming sting Miel
Aimee Dunne Ming sting Miel
Chash Goglanopyaka sting Mishinecti
Ross Griffin stil Policial Mishinecti
Ross Griffin stil Policial Mishinecti
Ross Griffin stil Policial Miel
David Hutchinson sting Ceng Miel
Andrew Lacey ist Mic Cing MIEI
Brendan Manning sting Ceng Miel
Laura McLoughlin sting Ceng Miel
Danny Pio Murphy sting Miel Policial Miel Many Volschenk sting Ceng Miel
Canny Volschenk sting Ceng Miel
Karl Von Loggerenberg sting Mis-Ceng Mishinecti Miel

Andrew Loggerenberg sting Mis-Ceng Mishinecti Miel
Karl Von Loggerenberg sting Mis-Ceng Mishinecti Miel

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Appendix A

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Bill Bates BENG MSC PhD CENG MIEI MICE Colm Doyle BE CENG MIEI Colm Doyle BE Crisp MIB
Fergal English BE Cresp MIB
Paul Forde (Choimen) BE Cresp Europ Fishwel FIE FConsEl
John Hayes Becking Cresp MIB FConsEl
Thomas Jennings Being Misc MIBIT CMIII
John Keame Becking Cresp MICE MEE FConsEl
Tracy Kearney BA BAI MSc Cling MIBI
Robert Kelly BAI MA PGOODING Cling MIB
Ill Lawler Managerater BE FCONSE CRESP MIBIT FCONSE Jim Lawler (Managing) BE DipComp CEng MIEI FConsEl John Meaney AMISTRUCTE IENG
Dan Reilly BENG CENG MIEI MCIWEM MIHT FCONSEI Kevin Sturgeon BEng MSc CEng PGrodDip MIEI

Paddy G Darling BE BA CEng MIEI

Associate Directors

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Liam Brehon 85cEng CEng MISRINGE DIpH&S(Const) MIEI Aiden Burke BE MMongtSc CEng Int PE (Iri) MIEI Sarah Curran BA BAI CEng MIEI Noel Gorman BE CENG MIE Brendan Keogh BA BAI PGrodDIP CENG MIEI Shane McGovern BE CENG MISTRUCE MIEI Colm Quirke 8E CEng PMP MIB

Andrew Robertson BEng CEng MCIHT MSORSA FIEL

David Sheehan BScEng CEng MIB Neil Wilson BA BAI CEng MIEI

Associates

Kevin Ahern BENG CENG MIEI
David Bourke BE MSC PGCent CENG MIEI Conor Brady BENG CENG MIStructe MIEI Kevin Burke BA MSc John Carr BE MENG CENG MIEI
Michael Connelly SENG CENG MIEI
Kevin Coughlan BENG MSC CENG MISTRUCTE MIEI Chris Curley IT/BIM Manag David Dolan BE CEng MIEI Aimee Dunne MEng BEngTech CEng MIEI MIHE Nick Fenner MEng CEng MIEI
Chash Gajanayaka BEng CEng Mistructe Ross Griffin BE PGradDip CEng MIEI David Hutchinson BEng CEng MIEI Mark Kelly BAI MA MSc PGrodDip CEng MIEI Andrew Lacey BE ME CENG MIEL Brendan Manning BENG CENG MIEL Laura McLoughlin Beng CEng MBB
Danny Pio Murphy BEng MEng PGrodDip CEng MIB MCHT MTPS
Tanya Volschenk BEng CEng MBB Karl Von Loggerenberg BEng MSc CEng MIS



