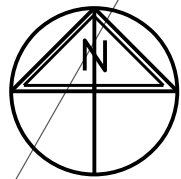


Key:

	Private Surface Water Drain
	Private Surface Water Manhole
 RE	Private Surface Water Rodding Eye
	Private Foul Drain
	Private Foul Manhole
	S104 Surface Water Sewer
	S104 Surface Water Manhole
	Private Channel Drain - ACO M100D 0.0 or similar approved

Foul: Domestic													
MH Ref:	Cover Level	Invert Level	MH Depth	MH Material	MH Size	MH Cover	Pipe Ref:	Upstream IL	Downstream IL	Pipe Dia	Distance	Pipe Gradient 1:100	Pipe Material
F1	4.100	3.400	0.700	Plastic	ø450	B125	F1-F2	3.400	3.284	100	9.26	79.8	Plastic
F2	4.100	3.284	0.816	Plastic	ø450	B125	F2-F3	3.284	3.248	100	2.86	79.3	Plastic
F3	4.100	3.248	0.852	Plastic	ø450	B125	F3-F4	3.248	3.132	100	9.26	79.8	Plastic
F4	4.100	3.132	0.968	Plastic	ø450	B125	F4-F7	3.132	3.117	100	1.17	77.7	Plastic
F5	4.100	3.400	0.700	Plastic	ø600	B125	F5-F6	3.400	3.284	100	9.26	79.8	Plastic
F6	4.100	3.284	0.816	Plastic	ø450	B125	F6-F7	3.284	3.117	100	1.69	10.1	Plastic
F7	4.100	3.067	1.033	Plastic	ø450	B125	F7-F12	3.067	2.520	150	26.14	47.8	Plastic
F8	3.600	2.900	0.700	Plastic	ø450	B125	F8-F9	2.900	2.839	100	4.87	79.8	Plastic
F9	3.600	2.839	0.761	Plastic	ø450	B125	F9-F10	2.839	2.778	100	4.87	79.9	Plastic
F10	3.600	2.778	0.822	Plastic	ø450	B125	F10-F11	2.778	2.717	100	4.87	79.9	Plastic
F11	3.600	2.717	0.883	Plastic	ø450	B125	F11/F12	2.717	2.570	100	11.75	79.9	Plastic
F12	3.568	2.520	1.048	Concrete	ø1200	D400	F12/EX MH	2.520	2.386	150	19.98	149.1	Clay



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Contractors must verify all dimensions, levels and co-ordinates at the site before commencing any work or making any shop drawings: no dimensions to be taken from drawing.

B	Amended lateral connection to Clay pipe	CM	AG	05/18
A	Issued for approval, notes added on crossing IDB sewer for foul connection.	CM	AG	04/18
-	Initial issue for comment	CM	AG	04/18
Rev	Description	Drn	Vf'd	Date

As outlined in section 2.3 of the CITB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: 

- ☒ No significant risks have been identified.
- ☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature	CM	Date 04/18
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Drawing Status
APPROVAL

williamsaunders
architecture: engineering: building consultancy

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Project
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Spalding
Lincolnshire

Client
D. Brown Building Contractors Ltd
on behalf of Welland Homes

Title

Domestic Drainage Layout

Drawn CM	Date April 2018	Scale 1:200	@ A2
Discipline Civils	Project Number 11482	Drawing Number (9)20	Revision B

Surface Water : Domestic													
MH Ref:	Cover Level	Invert Level	MH Depth	MH Material	MH Size	MH Cover	Pipe Ref:	Upstream IL	Downstream IL	Pipe Dia	Distance	Pipe Gradient 1:X	Pipe Material
Re1	3.750	3.450	0.300	-	-	B125	Re1-S1	3.450	3.000	150	15.492	34.4	Plastic
S1	3.600	3.000	0.600	Plastic	ø450	B125	S1-S2s	3.000	2.873	150	10.160	80.0	Plastic
Re2	3.750	3.450	0.300	-	-	B125	Re2-S2s	3.450	2.873	150	15.520	26.9	Plastic
S2s	3.600	2.873	0.727	Plastic	ø450	B125	S2s-Tank	2.873	2.760	150	6.700	59.3	Plastic
S3s	3.700	2.840	0.860	Plastic	ø450	D400	S3s-Tank	2.840	2.760	150	6.321	79.0	Plastic
Re3	4.050	3.750	0.300	-	-	B125	Re3-S4	3.750	3.450	150	5.343	17.8	Plastic
Re6	4.050	3.750	0.300	-	-	B125	Re6-S4	3.750	3.450	150	18.845	62.8	Plastic
S4	4.050	3.450	0.600	Plastic	ø450	B125	S4-S5s	3.450	3.316	150	10.662	79.6	Plastic
Re4	4.050	3.750	0.300	-	-	B125	Re4-S5s	3.750	3.316	150	5.757	13.3	Plastic
Re5	4.050	3.750	0.300	-	-	B125	Re5-S5s	3.750	3.316	150	18.846	43.4	Plastic
S5s	4.050	3.316	0.734	Plastic	ø450	B125	S5s-Tank	3.316	2.760	150	3.400	6.1	Plastic
S6	3.800	2.028	1.772	Concrete	ø1200	D400	S6-S7	2.028	1.862	150	21.426	129.1	Plastic
S7	3.880	1.862	2.018	Concrete	ø1200	B125	S7-Ex SWS	1.862	1.854	150	1.000	125.0	Plastic

s - denotes sump manhole before attenuation tank