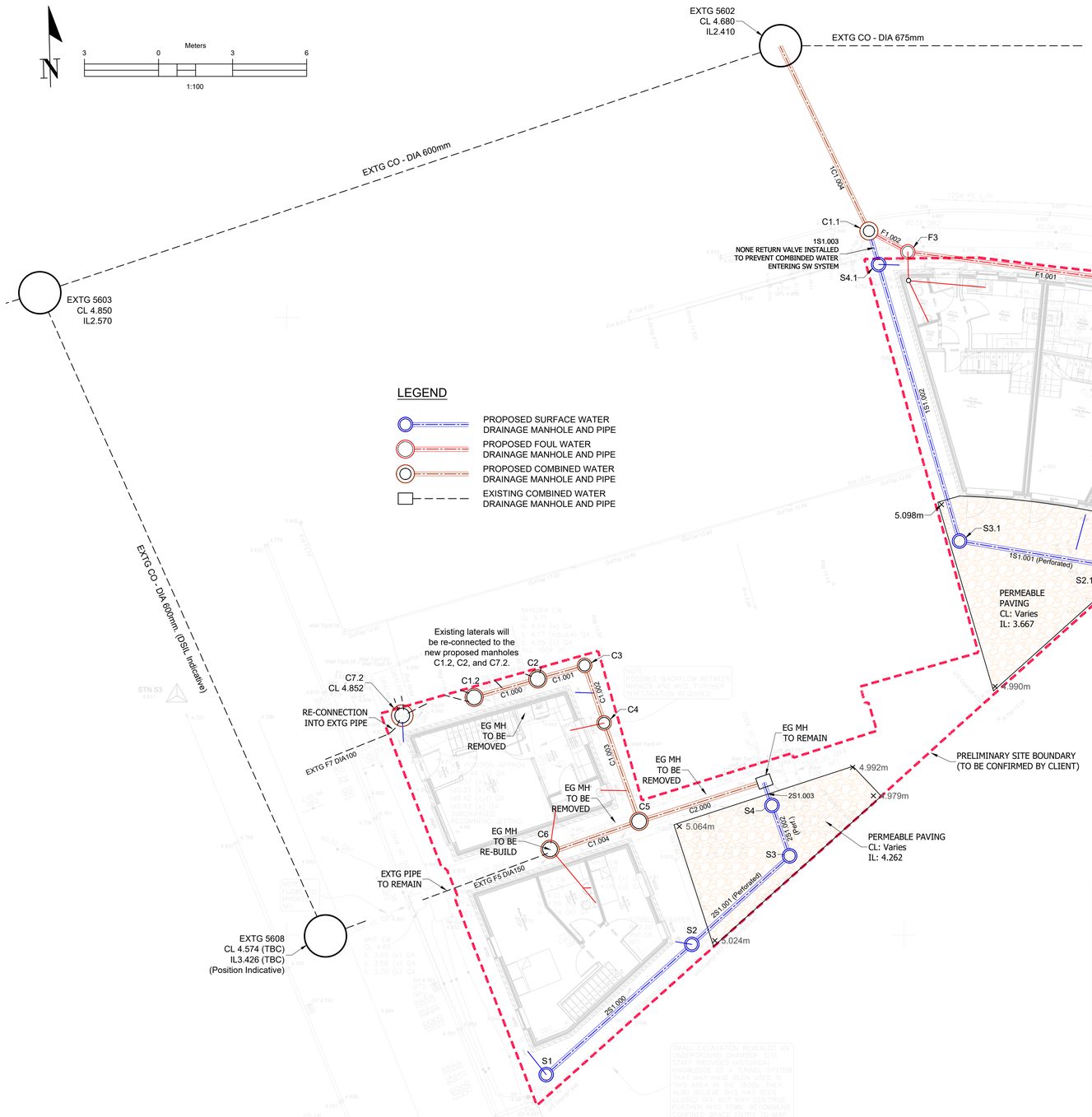


PROPOSED DRAINAGE LAYOUT - PLAN

(SCALE 1:100)

SURFACE, FOUL/COMBINED WATER PIPE SCHEDULE

Pipe Name	Size (mm)	Plan Length (m)	Slope	Start Invert Level	End Invert Level	Description
1C1.004	150	8.302	1:22	3.310	2.935	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
1S1.000	150	12.948	1:99	3.864	3.733	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
1S1.001	150	6.463	1:98	3.733	3.667	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001. Perforated
1S1.002	150	11.667	1:36	3.667	3.345	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
1S1.003	150	1.409	1:40	3.345	3.310	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
2S1.000	150	7.912	1:99	4.408	4.328	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
2S1.001	150	5.340	1:99	4.328	4.274	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001. Perforated.
2S1.002	150	2.167	1:98	4.274	4.252	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001. Perforated.
2S1.003	150	0.980	1:89	4.252	4.241	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
C1.000	150	2.679	1:89	4.181	4.151	plain end 150mm Vitrified Clay Pipe 14mm wall thickness
C1.001	150	1.974	1:90	4.151	4.129	plain end 150mm Vitrified Clay Pipe 14mm wall thickness
C1.002	150	2.459	1:91	4.129	4.102	plain end 150mm Vitrified Clay Pipe 14mm wall thickness
C1.003	150	4.225	1:90	4.102	4.055	plain end 150mm Vitrified Clay Pipe 14mm wall thickness
C1.004	150	3.639	1:81	4.055	4.010	plain end 150mm Vitrified Clay Pipe 14mm wall thickness
C2.000	150	5.029	1:27	4.240	4.055	plain end 150mm Vitrified Clay Pipe 14mm wall thickness
F1.000	150	4.020	1:59	3.542	3.474	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
F1.001	150	11.336	1:80	3.474	3.332	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001
F1.002	150	1.785	1:81	3.332	3.310	Ridgdrain to BS EN 1295-1; BSI ISO9001 and BSI ISO14001

SURFACE AND FOUL/COMBINED WATER MANHOLE SCHEDULE

Structure Name	Inner DIA (mm)	CL (m)	IL (m)	Depth (m)	Connected Pipes	Manhole Cover Weight Class	Easting	Northing	Structure, Access Type and Cover Loadings
C1.1	600	4.660	3.310	1.350	1S1.003 Inv. 3.310 1C1.004 Inv. 3.310 F1.002 Inv. 3.310	D400	524548.578	322678.499	Slab Top Cylindrical Structure 600 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
C1.2	600	4.834	4.181	0.653	C1.000 Inv. 4.181	B125	524532.592	322659.622	Slab Top Cylindrical Structure 600 dia 600 dia Frm 150 FrHt 150 slab 65 wall 150 floor
C2	600	4.813	4.151	0.662	C1.000 Inv. 4.151 C1.001 Inv. 4.151	B125	524535.166	322660.365	Slab Top Cylindrical Structure 600 dia 600 dia Frm 150 FrHt 150 slab 65 wall 150 floor
C3	450	4.783	4.129	0.654	C1.001 Inv. 4.129 C1.002 Inv. 4.129	B125	524537.062	322660.912	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
C4	450	4.895	4.102	0.793	C1.003 Inv. 4.102 C1.002 Inv. 4.102	B125	524537.856	322658.584	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
C5	600	5.083	4.055	1.028	C1.003 Inv. 4.055 C1.004 Inv. 4.055 C2.000 Inv. 4.055	B125	524539.272	322654.604	Slab Top Cylindrical Structure 600 dia 600 dia Frm 150 FrHt 150 slab 65 wall 150 floor
C6	600	5.049	4.010	1.039	C1.004 Inv. 4.010	B125	524535.665	322653.469	Slab Top Cylindrical Structure 600 dia 600 dia Frm 150 FrHt 150 slab 65 wall 150 floor
F1	450	4.833	3.542	1.291	F1.000 Inv. 3.542	B125	524565.288	322675.182	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
F2	450	4.778	3.474	1.304	F1.001 Inv. 3.474 F1.000 Inv. 3.474	B125	524561.389	322676.164	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
F3	450	4.600	3.332	1.268	F1.001 Inv. 3.332 F1.002 Inv. 3.332	B125	524550.152	322677.656	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
RE	???	4.027	???	1.050	1S1.000 Inv. 3.864	B125	524568.270	322673.524	???
S1	450	5.013	4.408	0.605	2S1.000 Inv. 4.408	B125	524535.506	322644.347	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
S2	450	5.034	4.328	0.706	2S1.001 Inv. 4.328 2S1.000 Inv. 4.328	B125	524541.404	322649.622	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
S2.1	450	5.081	3.733	1.348	1S1.000 Inv. 3.733 1S1.001 Inv. 3.733	B125	524558.623	322664.888	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
S3	450	5.011	4.274	0.737	2S1.001 Inv. 4.274 2S1.002 Inv. 4.274	B125	524545.367	322653.201	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
S3.1	450	5.070	3.667	1.403	1S1.001 Inv. 3.667 1S1.002 Inv. 3.667	B125	524552.248	322665.948	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
S4	450	5.052	4.252	0.800	2S1.002 Inv. 4.252 2S1.003 Inv. 4.252	B125	524544.650	322655.245	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor
S4.1	450	4.681	3.345	1.336	1S1.002 Inv. 3.345 1S1.003 Inv. 3.345	B125	524548.973	322677.146	Slab Top Cylindrical Structure 450 dia 450 dia Frm 150 FrHt 150 slab 65 wall 150 floor

Construction Design And Management Regulations 2015

The contractors attention is drawn to the abnormal risks identified below, annotated on the drawing and explained in the associated design risk registers.

Legend

- You Must Not Do
- Hazard Or Danger
- You Must Do
- Caution

Abnormal Risks Identified:

1. Abnormal risks to be confirmed

External References: External References

NOTES

1. IF IN DOUBT, ASK THE PROJECT ENGINEER.
2. DO NOT SCALE THIS DRAWING.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
5. ALL PROPRIETARY ITEMS TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.
6. EXISTING DRAINAGE ARRANGEMENTS ARE PRESENTED IN DRAWING 230086-WDK-ZZ-SI-DR-C-33005 - EXISTING DRAINAGE LAYOUT

PRELIMINARY NOTE:

PLEASE BE ADVISED THAT THE SURFACE AND FOUL WATER DRAINAGE ARRANGEMENTS ARE PRELIMINARY IN NATURE. THESE ARRANGEMENTS HAVE BEEN DEVELOPED BASED ON INITIAL ASSESSMENTS AND ARE SUBJECT TO FURTHER REVIEW, MODIFICATION, AND APPROVAL BY RELEVANT AUTHORITIES.

WALDECK CONSULTING SHALL NOT BE HELD LIABLE FOR ANY CLAIMS, DAMAGES, LOSSES, OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRELIMINARY INFORMATION. ALL PARTIES UTILIZING THIS INFORMATION AGREE TO INDEMNIFY AND HOLD HARMLESS WALDECK CONSULTING, ITS EMPLOYEES, AGENTS, AND SUBCONTRACTORS AGAINST ANY AND ALL LIABILITIES, CLAIMS, DAMAGES, LOSSES, COSTS, AND EXPENSES (INCLUDING LEGAL FEES) THAT MAY ARISE FROM RELIANCE ON OR USE OF THE PRELIMINARY SURFACE AND FOUL WATER DRAINAGE ARRANGEMENTS.

ASSUMPTIONS AND EXCLUSIONS:

THE PRELIMINARY ARRANGEMENTS ARE BASED ON AVAILABLE DATA AND ASSUMPTIONS THAT ARE DEEMED REASONABLE AT THIS STAGE BUT HAVE NOT BEEN EXHAUSTIVELY VERIFIED. WALDECK CONSULTING IS NOT RESPONSIBLE FOR ANY CHANGES, UPDATES, OR REVISIONS THAT MAY BE REQUIRED BY REGULATORY BODIES OR AS A RESULT OF FURTHER SITE INVESTIGATIONS.

Note:
All works will be undertaken in accordance with DCG

Rev	Amendments	Rev'd by	Date
P02	Drawing Updated to Suit Comments	FN	06.10.23
P01	Preliminary Issue	FN	25.09.23

Client

birdwood construction ltd

Project
Residential Development
Station Street & Victoria Street
Spalding

Title
Proposed Drainage Layout

Project	Originator	Volume	Level	Type	Role	Number
230086	WDK	ZZ	SI	DR	C	33001

Internal Project Reference
230086

Suitability | Suitable For
S3 - Suitable for Review & Comment

Scale: 1:100 @ A1
Created: 11.09.23
Revision: P02

Project Engineer: SY
Drawn: FN
Checked: RP
Reviewed: RP
Approved for Issue: WG

Waldeck
Digital Strategy Consultancy Solutions
www.waldeckconsulting.com
Offices and Projects UK wide
Wellingore Hall
Hall Street
Lincoln
Lincolnshire
LN5 0HX

© 2017 WALDECK

1. These drawings are copyright and the property of Waldeck Associates Ltd. Copying of the designs drawings or intellectual property in full or in part is not permitted without the written consent of a Director of Waldeck Associates Ltd.
   In the event of a default by the Employer of its obligations due to Waldeck Associates Ltd neither it or its Assignees or Beneficiaries are permitted or licensed to use or copy the information until such time as the Employer has remedied its default and the Consultant gives written consent to reinstatement of its permission or licence to use its materials.
2. The initial feasibility pre-contract designs specification, cost plans, bill of quantities, feasibility studies and all other documents or media whether electronic or hard copy are indicative only and could be subject to changes in statute or other rules and regulations and changes in the Employer's requirements and will be subject to design development until such time as Waldeck's Services are engaged under a formal written appointment that pays for an appropriate fee at commercial rates. Use of these documents or media shall be entirely at the risk of the person using it. No reliance on these documents shall be permitted and full copyright is retained by Waldeck. Waldeck accepts no responsibility for reliance on these documents or media and it is assumed that the Contractor or Developer or Client has made sufficient provision for design development within its bid or that design has not been commissioned. No waiver of this endorsement shall be permitted except in writing and signed by a Director of Waldeck as recorded at Companies House.
3. "Waldeck" is a Trading Style of Waldeck Associates Ltd registered in England and Wales Company N° 3450319.