



S185 Alignment
Horiz. 1:200, Vert. 1:100

Section 185 Foul Water Manhole Schedule								
MH Ref.	Cover Level	Invert Level	MH Depth (m)	MH Material	MH Type	MH Size (mm)	MH Cover	Eastings (m)
F1	3.400	-0.822	4.222	Concrete	Type A	Ø1200	D400	542739.703
F2	3.282	-0.862	4.144	Concrete	Type A	Ø1200	D400	542733.922
F3	3.500	-0.913	4.413	Concrete	Type A	Ø1200	D400	542747.708
F4	3.635	-0.979	4.614	Concrete	Type A	Ø1200	D400	542766.660
F5	3.734	-1.029	4.763	Concrete	Type A	Ø1200	D400	542777.573
F6	3.839	-1.093	4.932	Concrete	Type A	Ø1200	D400	542794.551
F7	3.678	-1.199	4.877	Concrete	Type A	Ø1200	D400	542814.860
F8	3.393	-1.286	4.679	Concrete	Type A	Ø1200	D400	542820.451
F9	3.172	-1.363	4.536	Concrete	Type A	Ø1200	D400	542834.201
F10	3.505	-1.428	4.933	Concrete	Type A	Ø1200	D400	542818.642
AW 8802	3.212	-1.460	4.672	Concrete	Type A	Ø1500	D400	542824.686

Section 185 Foul Water Pipe Schedule						
Pipe Ref.	Upstream IL	Downstream IL	Pipe Dia. (mm)	Distance (m)	Pipe Gradient 1:X	Pipe Material
F1 - F2	-0.822	-0.862	375.000	12.413	1:307.0	Concrete
F2 - F3	-0.862	-0.913	375.000	15.579	1:307.0	Concrete
F3 - F4	-0.913	-0.979	375.000	20.239	1:307.0	Concrete
F4 - F5	-0.979	-1.029	375.000	15.265	1:307.0	Concrete
F5 - F6	-1.029	-1.093	375.000	19.806	1:307.0	Concrete
F6 - F7	-1.093	-1.199	375.000	32.501	1:307.0	Concrete
F7 - F8	-1.199	-1.286	375.000	26.655	1:307.0	Concrete
F8 - F9	-1.286	-1.363	375.000	23.752	1:307.0	Concrete
F9 - F10	-1.363	-1.428	375.000	19.780	1:307.0	Concrete
F10 - AW 8802	-1.428	-1.460	375.000	9.951	1:307.0	Concrete

PIPE STRENGTH CALCULATIONS							
PIPE REFERENCE	PIPE dia mm	DEPTH OF COVER MIN m	COVER MAX m	BEDDING FACTOR	DESIGN LOAD We kN/m	We x 1.25 Bedding Factor kN/m	REQ PIPE STR.
S1 - S3	225	0.88	0.93	2.2	25.33	14.39	Plastic
S2 - S3	225	0.88	0.93	2.2	25.33	14.39	Plastic
S3 - S4	300	0.93	1.10	2.2	32.16	18.27	Plastic
S4 - S5	300	1.10	1.25	2.2	31.23	17.74	Plastic
S5 - S6	300	1.21	1.25	2.2	31.23	17.74	Plastic
S6 - S7	300	1.03	1.21	2.2	31.23	17.74	Plastic
S7 - S8	225	0.97	1.03	2.2	23.54	13.38	Plastic
S8 - Existing	375	0.97	1.08	2.2	23.54	13.38	Concrete
F1 - F2	375	3.77	3.85	2.2	37.07	21.06	Concrete
F2 - F3	375	3.77	4.04	2.2	37.10	21.08	Concrete
F3 - F4	375	4.04	4.24	2.2	37.40	21.25	Concrete
F4 - F5	375	4.24	4.39	2.2	37.16	21.11	Concrete
F5 - F6	375	4.39	4.55	2.2	37.21	21.14	Concrete
F6 - F7	375	4.50	4.55	2.2	37.21	21.14	Concrete
F7 - F8	375	4.30	4.50	2.2	37.21	21.14	Concrete
F8 - F9	375	4.19	4.30	2.2	37.14	21.10	Concrete
F9 - F10	375	4.19	4.56	2.2	37.21	21.14	Concrete
F10 - AW 8802	375	4.30	4.56	2.2	37.21	21.14	Concrete

BEDDING FACTORS Class B 1.9; Class S 2.2; Unreinforced Concrete 4.5.

Table A: Approved Pipes Types	
Material	Sizes mm
Wavin Ultrarib or Polypipe Polysewer	150, 225 and 300
Polypipe Rigi sewer	400, 450, 500, 600, 750 and 900
Concrete	375, 450, 525, 600, 675, 750, 825, 900, 975, 1050, 1125, 1200, 1350, 1500, 1800 and 2100

- General Notes
- DO NOT SCALE.
 - This drawing is to be read in conjunction with all other relevant drawings and details.
 - Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to construction on site.
 - Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the Contractor commence site work prior to such approval being given it is entirely at their own risk.
 - Sketch proposals are for illustrative purposes only and as such are subject to detailed site investigation including ground conditions / contaminants, drainage, design and planning / density negotiations.
 - All dimensions are in millimetres unless otherwise stated.
 - The Farrow Walsh Consulting Designers Risk Assessments for this project must be reviewed PRIOR to the commencement of any works on site.

T2	Adoptable drainage has been updated following an increased discharge rate. Drawing has been updated to suit.	JR	BM	JD	30.09.19
T1	Issued for Tender.	CC	BM	JD	19.07.19
Rev	Description of updates	Drawn	Checked	App'd	Date
Revision Schedule					



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FOR TENDER

Client:
GEDA Construction Ltd.

Project:
Station Road
Long Sutton

Title:
Long Sections (Section 185)
Sheet 2 of 2

Drawn: CC	Checked: BM	Approved: JD	Date: July 2019	Scale: 1:200 @ A1
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Drawing No. FW1733-D-404-02	Revision: T2
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