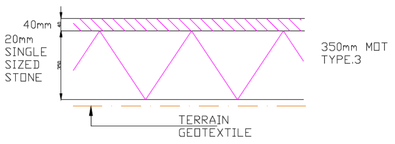
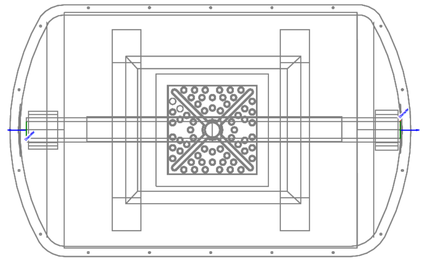
SPORTS FIELD



DETAIL 1 – GRAVEL DRIVEWAY
1:10

SOAKAWAY	STORM PLOTS 1- 5
Lowest Cover Level (m)	3.50
Level top of Cells (m)	3.00
Base level of Cells (m)	2.200
Pipe invert (m)	2.900
Contributing area (m2)	180
Dimension on Plan (m)	6.0x2.0x0.8(d)
Cell Thickness (m)	0.8
Void Space (%)	95
Maximum Storage Volume (m3)	9.12



Marsh Industries
Ensign Ultra sewage
treatment plants (6 Pop)

SOAKAWAY	FOUL PLOTS 1-2	SOAKAWAY	FOUL PLOTS 3-5
Lowest Cover Level (m)	3.300	Lowest Cover Level (m)	3.300
Level top of Cells (m)	2.400	Level top of Cells (m)	2.500
Base level of Cells (m)	2.000	Base level of Cells (m)	2.100
Pipe invert (m)	2.300	Pipe invert (m)	2.400
Contributing area (m2)	-	Contributing area (m2)	-
Dimension on Plan (m)	4.0 x 3.0 x 0.4(d)	Dimension on Plan (m)	4.0 x 3.0 x 0.4(d)
Cell Thickness (m)	0.4	Cell Thickness (m)	0.4
Void Space (%)	95	Void Space (%)	95
Maximum Storage Volume (m3)	4.56	Maximum Storage Volume (m3)	4.56

Private Drainage Key

- Foul Inspection Chamber (Depth <0.6m [1 s de connection])
- Foul Inspection Chamber (Depth <1.2m [2 s de connections])
- Foul BR manhole PCC Ring (1.2-1.5m)
- Foul BR manhole PCC Ring (1.50-2.7m)
- Storm Inspection Chamber (Depth <0.6m [1 s de connection])
- Storm Inspection Chamber (Depth <1.2m [2 s de connections])
- Storm BR manhole PCC Ring (1.2-1.5m)
- Storm BR manhole PCC Ring (1.50-2.7m)
- Backdrop on SW Chamber
- Backdrop on FW Chamber
- RE Rodding eye with Invert Level
- French drain / Filter trench
- ACO channel or similar with gully and rodding point.
- Gully
- Road Gully — Low Point — High Point
- FFL 12.50 FFL Level — Bullnosed dropped kerb

Sewerage Treatment Plant

Marsh Industries
Ensign Ultra sewage treatment plants (6 Pop)

Surface Water Attenuation

POLYSTORM-L tn (PSM2) Cellular Storage Storm Water Management System
Cellular storage tanks suitable for veh cular loading (where applicable) w th 95% voids wrapped in an impermeable geo-membrane.

POLYSTORM-L tn (PSM2) Cellular Storage Storm Water Management System
Cellular storage tanks suitable for veh cular loading (where applicable) w th 95% voids wrapped in an impermeable geo-membrane.

Gravel Paving
40mm Th ck of 20mm single sized stone on top of 350mm Type 3 aggregate laid in layers not exceeding 100mm thick, each layer to be well compacted.

IDB 9m easement

North Arrow

N
W E
S

NOTES

1. The contractor shall check all tie-ins for line and level w th existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
2. Any discrepancies, of whatever nature, must be reported to the Engineer pr or to the commencement or continuance of any further works.
3. All private drainage works to be in accordance with the requirements of Building Regulations 2010, Part H, "Drainage and waste disposal", (01st October 2015).
4. All pipes to be bedded and backfilled in accordance with Part H, Diagram 10. Shallow pipes shall be protected in accordance with Part H, Diagram 11.
5. Unless otherwise stated, all private drainage to be 100mm diameter. Gradients have been shown where there are pipe capacity issues and these should be regarded as minimums. Unless there are constraints dictating otherwise, gradients shall generally be 1 in 60. 100mm diameter pipes shall not be laid flatter than 1 in 80, 150mm diameter pipes shall not be la d flatter than 1 in 150.
6. All pipes, chambers and f ttings to be installed strictly in accordance w th the manufacturers instruct ons.
7. Pipes wh ch run adjacent to buildings shall be installed in str ct accordance w th Part H, Clauses 2.23 to 2.25 and Diagram 8.
8. All private manholes, inspection chambers and drainage channels to comply with BS EN124. Cover strengths to be:
   Class D400 in heavy traff cked areas (access roads, serv ce yards etc.)
   Class C250 in lightly traff cked areas (car parks, driveways etc)
   Class B125 in Non traffcked areas
   Class A15 in landscaping areas
9. All drains in the vicin ty of existing or proposed trees to be constructed in accordance with the requirements of NHBC Pract ce Note 3.
10. Private drainage frames must be tied to manhole risers by use of manufacturers ties (e.g. Polypipe ref. FRK500 fixing k t and FRK501 black ties.) The ground works contractor will be held fully responsible for any acc dents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
11. All existing land drains encountered on site during construction to be re-connected.
12. Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and pr or to commencement or continuance of any works, and should take full account of all restrictions to the slab level.
13. Garage slabs relate to the finished level of the concrete at the front entrance of the garage.
14. Where a drive slopes towards a garage there is to be a 75mm ramp up to the garage slab.
15. Maximum gradients of gardens to be 1 in 6 (unless stated otherwise), except for designed banking works.
16. All dimens ons in metres unless otherwise stated.
17. As underlying ground conditions may be variable across the s te the Contractor shall undertake ons te poros ty tests at the locat on and depth of each soakaway. Tests should be undertaken in accordance with BRE365 and results forwarded to the Engineers to allow verificat on of designs.
18. All existing serv ces, sewers and drains ind cated on this drawing and any other related drawings are shown only indicatively, and shall have their posit ons and level confirmed on site by the Contractor.
19. The invert levels of all existing sewers, drains, d tches, tanks or other features and apparatus where a new connect on is to be made shall have their precise position and level confirmed on site by the Contractor prior to commencement of any construct on work. The results of the investigations shall be confirmed to MTC Engineering (Cambr dge) Ltd so that the design can be verified.

SOAKAWAY PROTECTION:
Please ensure that during the construction phase all soakaways, gullies and gully laterals are protected from the ingress of silt or grit from the site. Placing a fine heavy duty geotextile under the gully grating, between it and the frame should suffice.

NOTE:
At the location of the proposed lateral connection the contractor shall establish the position and depth of any existing services to prevent any clash in level and abortive costs.

FOR APPROVAL

REV	DATE	DESCRIPTION/REASON FOR ISSUE	APPR
A	06.04.23	DRAINAGE REVISED	JTC

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Tel (01223) 837270, fax (01223) 835648
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PROJECT
Land Off Penny Hill Road, Holbeach
Spalding, Lincolnshire

TITLE
Proposed Drainage Plan

ORIG	DATE
JTC	24.01.23
CHKD	SCALE 1:200 @ A1
APPR	DRAWING NO 2899-05 REV A

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