DRAINAGE LEGEND (1:200)

- Foul water sewer/drain
- Storm water sewer/drain
- Storm water land drain
- FW — Soil stack (Type TBC by Architect/m&e engineer)
- Foul water inspection chamber (450Ø)
- Foul water manhole
- TD — Threshold Drain
- CD — Channel Drain
- Rainwater pipe
- Storm water rodding eye
- Yard gully
- Road gully
- Storm water access chamber (300Ø)
- Storm water inspection chamber (450Ø)
- DU — Rainwater diffuser unit by SEL
- Fin Drain
- Block paving tanked porous parking area
- Geocellular attenuation tank
- Storm water manhole
- RPZ Area
- 00.000 — Finished floor level
- 100Ø 4.5m 1:100 Z BED — Pipe info - Diameter, Length, Gradient, Bedding type

ABBREVIATIONS

CP	- CATCHPIT
MH	- MANHOLE
IC	- INSPECTION CHAMBER
AC	- ACCESS CHAMBER
RE	- RODDING EYE
IL	- INVERT LEVEL
SL	- SUMP LEVEL
CL	- COVER LEVEL

- BD IL5.15 IL3.50 — BACKDROP HIGH LEVEL IL LOW LEVEL IL
- Tadpoles
- 19.71 19.29 — Finished level/ Formation level

DESIGN SUBJECT TO THE APPROVAL OF:
PLANNING AUTHORITY
BUILDING CONTROL

DESIGN SUBJECT TO THE CONFIRMATION OF:
ORDINARY WATERCOURSE APPROVAL

STANDARD NOTES

1. DO NOT SCALE FROM THIS DRAWING, REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
2. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
4. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
5. BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK THE INVERT LEVELS OF EXISTING SEWERS TO WHICH CONNECTIONS ARE MADE. IN ADDITION THE CONTRACTOR MUST LOCATE AND DETERMINE INVERT LEVELS OF THE EXISTING SPURS TO WHICH CONNECTIONS ARE PROPOSED. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION.
6. ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT, THE WORKS CONTINUING UPSTREAM FOLLOWING CONFIRMATION OF THE TIE-IN INVERT LEVELS TO THE ENGINEER. CONNECTIONS TO MANHOLES OR LARGER SIZED PIPES ETC. SHOULD BE SOFFIT TO SOFFIT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, IF THIS IS NOT POSSIBLE INFORM THE ENGINEER IMMEDIATELY.
7. COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS.
8. ALL UN-REFERENCED PIPES ARE ASSUMED TO BE 100mm DIA
9. ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS. ALL GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED.
10. ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT PART-H, AND TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
11. THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
12. IF ANY SUB SOIL DRAINAGE SYSTEMS ARE UNCOVERED DURING THE WORKS CONTACT THE ENGINEER FOR INSTRUCTIONS. SUB SOIL DRAINS ARE TO BE DIVERTED AROUND NEW WORKS AND CONNECTED INTO THE SURFACE WATER.
13. NO PRIVATE AREAS ARE TO DRAIN ONTO ADOPTABLE AREAS AND VICE VERSA.
14. ALL EXISTING MANHOLE COVER'S, GULLIES, ETC, ARE TO BE RAISED/LOWERED TO SUIT NEW LEVELS.
15. MANHOLE AND CHAMBER COVER GRADES:
    - 'A15' IN ALL LANDSCAPED AREAS AND ON FOOTPATHS
    - 'B125' IN ALL DRIVEWAYS
    - 'C250' IN PRIVATE PARKING AREAS
    - 'D400' IN CARRIAGEWAY/ACCESS ROAD
16. SURFACE WATER PIPES TO BE STRUCTURED TWIN WALL OR UPV-C.
    ALL FOUL WATER PIPES TO BE UPV-C OR CLAY
17. ALL PIPE JUNCTIONS TO BE OBLIQUE. SQUARE JUNCTIONS ARE NOT PERMITTED

AT1
Attenuation Tank using Polypipe Polystorm units wrapped in impermeable geomembrane
8x7x0.4m DP
Total 21.28m³ storage for 1 in 100 year + 40% peak storm event
CL 19.700
TOTL 19.010
BOTL 18.610
Min 500mm cover to units

AT2
Attenuation Tank using Polypipe Polystorm units wrapped in impermeable geomembrane
17x9x0.8m DP
Total 82.080m³ storage for 1 in 100 year + 40% peak storm event
CL 20.02 (min)
TOTL 19.524
BOTL 18.774
Min 500mm cover to units
Vent pipe from tank to connect to S9 as per detail
225mm RC35 concrete slab required at base of tank to counter effects of floatation. Tank to be strapped down as per detail.

Outline of 18x10m 225mm thk concrete slab at base of tank

Fencing to be adjusted to suit ditch position

Concrete baffle

Vent

AS BUILT

REV	DATE	DESCRIPTION	BY	CHK	APP
AB	07.01.22	AS BUILT LAYOUT	LH	CS	CS

cgs civils
Consulting Civil Engineers

CLIENT: GD GROUP
ARCHITECT: CITYZEN
JOB TITLE: MERRY ENGLAND ANGMERING
DRAWING TITLE: DRAINAGE LAYOUT

DRAWN	ENGINEER	CHECKED	APPROVED
LH	CS	CS	

DATE	SCALE @ A1
SEPT 2019	1:200

JOB No.	STATUS	DRAWING No.	REV.
C1249	AB	100	AB