

DESIGN SUBJECT TO THE APPROVAL OF:
PLANNING AUTHORITY
BUILDING CONTROL
SOUTHERN WATER
WEST SUSSEX COUNTY COUNCIL

SITE SPECIFIC DESIGN NOTES:

- ALL PIPE JUNCTIONS TO BE OBLIQUE. SQUARE JUNCTIONS ARE NOT PERMITTED

DRAINAGE LEGEND (1:200)
PROPOSED FEATURES

- Storm water sewer/drain
- Storm water channel drain
- Fin Drain
- Rain water pipe
- Road Gully
- Storm water inspection chamber (3000)
- Storm water inspection chamber (6000)
- Storm water manhole
- Storm water vortex flow control chamber
- Geocellular Attenuation Tank
- Tanked porous pavements
- Foul water sewer/drain
- Soil stack (type TBC by architect/m&e engineer)
- Foul water access chamber (3000)
- Foul water inspection chamber (4500)
- Foul water manhole

22.500
1000 4.5m 1:100
Z BED

ABBREVIATIONS

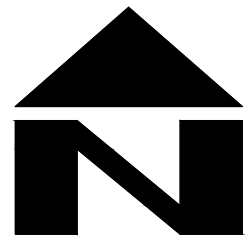
- CP - CATCHPIT
- MH - MANHOLE
- IC - INSPECTION CHAMBER
- AC - ACCESS CHAMBER
- RE - RODDING EYE
- IL - INVERT LEVEL
- SL - SUMP LEVEL
- CL - COVER LEVEL

BD
IL 5.15
IL 3.50

Backdrop
High level IL
Low level IL

STANDARD NOTES

- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
- ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
- 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.
- 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.
- COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS.
- ALL UN-REFERENCED PIPES ARE ASSUMED TO BE 100mm DIA.
- 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.
- ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT PART-H, AND TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
- 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.
- 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.
- NO PRIVATE AREAS ARE TO DRAIN ONTO ADOPTABLE AREAS AND VICE VERSA.
- ALL EXISTING MANHOLE COVERS, GULLIES, ETC. ARE TO BE RAISED/LOWERED TO SUIT NEW LEVELS.
- 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
- SURFACE WATER PIPES TO BE STRUCTURED TWIN WALL.
- ALL FOUL WATER PIPES TO BE UPV-C OR CLAY.
- ALL PIPE JUNCTIONS TO BE OBLIQUE. SQUARE JUNCTIONS ARE NOT PERMITTED. REFER TO DETAIL.



01

P6	11.08.20	UPDATED TO SUIT ADC COMMENTS	LH	CS	CS
P5	16.04.20	UPDATED TO SUIT ADC COMMENTS	LH	CS	CS
P4	30.03.20	UPDATED TO SUIT ADC COMMENTS	LH	CS	CS
P3	04.03.20	FULL DRAINAGE LAYOUT	LH	CS	CS
P2	17.02.20	UPDATED TO SUIT NEW SITEPLAN	LH	CS	CS
P1	07.01.20	CONNECTION TO HWD INDICATED	LH	CS	CS
P	16.01.20	PRELIMINARY ISSUE	LH	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

 Consulting Civil Engineers					
CLIENT GD GROUP					
ARCHITECT CITYZEN					
JOB TITLE ARUNDEL ROAD ANGMERING					
DRAWING TITLE DRAINAGE LAYOUT					
DRAWN LH		ENGINEER CS		CHECKED CS	APPROVED REV.
DATE NOVEMBER 2019		SCALE @ A1		1:200	
JOB No. C1276		STATUS P	DRAWING No. 100		REV. P6

PRELIMINARY

COMPULSORY
All block paved porous driveways to have a permeable Inhibit Geotextile between the laying course and sub-base as per detail. Sub-base to be wrapped in an impermeable SC geomembrane as per detail.

AT1
Attenuation Tank using Polypropylene
Polypropylene units wrapped in
impermeable geomembrane
3600x3000mm CP
Total 177.84m³ storage for 1 in 100
year + 40% peak storm event
CL 20.350
TOTL 18.597
INC IL 18.797
BOTL/OUT IL 18.797
Min 500mm cover to units
Vent pipe to connect to S25 as per
detail

Existing manhole cover and frame
to be replaced with class D400
Ductile iron of the same size, and
bedded appropriately to the
satisfaction of Arun DC Engineer

WARNING
All works within Root Protection
Zone to be carried out by hand
and under supervision of
Arboricultural Consultant

SW Runoff
Drained site area = 0.2209ha
Qbar = 0.7ls
Proposed discharge restricted to
rate of 1ls

Existing manhole cover and frame
to be replaced with class D400
Ductile iron of the same size, and
bedded appropriately to the
satisfaction of Arun DC Engineer

New 1500 connection into WSSC
Highway Drain at Soffit level -
Subject to approval from WSSC
and Arun DC

FW Drainage layout downstream
of F11 subject to Southern Water
design under S96 Agreement

Existing manhole cover and frame
to be replaced with class D400
Ductile iron of the same size, and
bedded appropriately to the
satisfaction of Arun DC Engineer