

DESIGN SUBJECT TO THE CONFIRMATION OF:  
EXTERNAL LEVELS DESIGN  
ORDINARY WATERCOURSE APPROVAL  
LOCATION AND DEPTH OF EXISTING UTILITIES  
ROOT PROTECTION AREAS

DESIGN SUBJECT TO THE APPROVAL OF:  
PLANNING AUTHORITY  
BUILDING CONTROL

#### DRAINAGE LEGEND

##### EXISTING FEATURES

- Ex CWS Existing combined water sewer/drain and manhole
- Ex SWD Existing surface water sewer/drain and manhole
- Existing foul/surface water sewer/drain and manhole to be abandoned

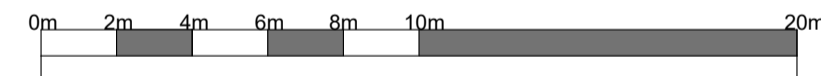
##### PROPOSED FEATURES

- FWD Foul Drainage
- SWD Surface Water Drainage
- Storm water inspection chamber (4500)
- Storm water manhole (12000)
- Storm water catchpit (12000)
- Storm water vortex flow control chamber
- Foul water inspection chamber (4500)
- Foul water manhole (12000)
- Finished floor level

1000 4.5m 1:100  
Z BED

##### ABBREVIATIONS

- MH - MANHOLE
- IC - INSPECTION CHAMBER
- AC - ACCESS CHAMBER
- CP - CATCHPIT
- BC - BRAKE CHAMBER
- RE - RODDING EYE
- IL - INVERT LEVEL
- SL - SUMP LEVEL
- RA - RESTRICTED ACCESS COVER
- CL - COVER LEVEL
- TL - TOP OF CELLULAR SA
- BL - BASE OF CELLULAR SA
- FL - FORMATION LEVEL



Scale Bar  
1:200

##### Site Specific Notes

- The proposed scheme will consist of the demolition of an existing barn, office and workshop. Following the demolition, a new barn/workshop and office unit is to be constructed on site. There are also alterations to the external hard paved areas on site.
- An infiltration test to BRE365 was carried out on site by CGS Civils Ltd. The test consisted of the excavation of a trial pit to a depth of 0.9m followed by the rapid introduction of water. Over the course of an hour and 40 minutes, the water level failed to change and therefore the test was considered a failure.
- A CCTV drainage survey was conducted on site by Eyes on Drainage Solutions Ltd on behalf of CGS Civils Ltd. The CCTV survey recorded the existing drainage arrangement on site and it is noted that the existing site discharges both surface and foul water into an existing culverted watercourse located on the opposing side of Okehurst Lane.
- It is proposed that all surface water runoff from roof areas is to be discharged into the existing drainage network on site at a restricted rate of 2.0l/s. The proposed surface water network will make use of a geocellular attenuation tank in order to cater for the 1 in 100-year +45% storm.
- The foul water is to be treated on site via a new package treatment plant. All treated effluent runoff is to then be discharged into the culverted watercourse via a new connection into the existing drainage network.

AT1 Cellular Attenuation Storage Tank using Polypropylene Polystyrene R/ units wrapped in impermeable geomembrane 10.0 x 2.0 x 0.8m Thk. Provides 15.2m<sup>3</sup> storage required in critical 1 in 100yr event +45% CCA CL 44.850 TL 44.050 BL 43.250 Tank to be installed with min 500mm cover to units. To be vented and otherwise installed in accordance with manufacturer's recommendations

PROPOSED DISCHARGE SUBJECT TO QWC APPROVAL WITH WEST SUSSEX COUNTY COUNCIL  
CONTRACTOR TO CONFIRM INVERT LEVEL OF DOWNSTREAM CONNECTION PRIOR TO INSTALLATION OF DRAINAGE

COMPULSORY  
DEPTH OF EXISTING SURFACE WATER DRAIN TO BE CONFIRMED PRIOR TO CONSTRUCTION TO ENSURE PROPOSED SURFACE WATER DRAIN DOES NOT CLASH

##### STANDARD DRAINAGE 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 TO BE 100mm DIA.
- ALL PIPES TO BE ADOPTED, OR CONNECTING TO ADOPTED SEWERS, TO BE VITRIFIED CLAY TO BS EN 295 AND BS65 (SWS ONLY), OR CONCRETE PIPES TO BE EN 1916 AND BS5911:PART 1.
- 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 ADOPTABLE SEWERS SHALL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATION LAID DOWN DOWN IN 'SEWERS FOR ADOPTION' 6th EDITION, WITH A VIEW TO ADOPTION UPON COMPLETION OF WORKS.
- 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 DRAWINGS CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
- STUB CONNECTIONS TO ADOPTABLE MANHOLES SHALL BE MADE FROM VITRIFIED CLAY AND CONSIST OF TWO ROCKER PIPES LAID AT THE SAME GRADIENT AS THE UP OR DOWNSTREAM PIPE.
- 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 COVER'S, GULLIES, ETC. ARE TO BE RAISED/LOWERED TO SUIT NEW LEVELS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE LOCATION AND DEPTH OF ALL EXISTING SERVICES AND UTILITIES THAT MAY BE PRESENT.
- UPON COMPLETION BUT PRIOR TO HANDOVER, CONTRACTOR TO CARRY OUT FULL CCTV SURVEY OF DRAINAGE SYSTEM WHICH IS TO BE REVIEWED BY ENGINEER TO ENSURE SATISFACTORY INSTALLATION
- 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

Prefixed to drawing numbers shall signify the following:-

PL = PLANNING	Shall not be used for contract or construction purposes
P = PRELIMINARY	Shall not be used for contract or construction purposes
T = TENDER	Shall not be used for construction purposes
C = CONSTRUCTION	These are the only drawings that shall be used for construction purposes
R = RECORD	Record of actual completed work

PL1	24.03.25	INCLUDED SCALE BAR	LH	CS	CS
P-	31.07.24	PRELIMINARY ISSUE	LH	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgscivils  
Consulting Civil Engineers

CLIENT	MARK BETTS				
ARCHITECT	PHILIPS SURVEYORS				
JOB TITLE	MENZIES WOOD FARM BILLINGSHURST				
DRAWING TITLE	DRAINAGE STRATEGY SHEET 1 OF 2				
DRAWN	LH	ENGINEER	C SLADE	CHECKED	CS
DATE	JULY 2024	SCALE @ A1	1:200	APPROVED	CS
JOB No.	C3130	STATUS	PL	DRAWING No.	101
REV.					PL1

FOR PLANNING ONLY