NOTES

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5. DO NOT SCALE FROM THIS DRAWING.
6. ALL DIMENSIONS ARE IN METRES (m), UNLESS STATED OTHERWISE.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
8. FOR INDIVIDUAL RAINWATER HARVESTING TANK SPECIFICATIONS PLEASE REFER TO WATER NEUTRALITY STATEMENT.
9. A FULL PAS128 UTILITY SCAN SHOULD BE UNDERTAKEN PRIOR TO ANY EXCAVATIONS WITHIN THE CARRIAGEWAY OR VERGE OF CHAPEL ROAD.
10. ALIGNMENT OF EXISTING FOUL SEWER TAKEN FROM SOUTHERN WATER SEWER RECORDS THE EXACT ALIGNMENT AND DEPTH SHALL BE DETERMINED PRIOR TO CONSTRUCTION.
11. ANY WORKS WITHIN ROOT PROTECTION AREAS SHALL BE APPROVED WITH ARBORICULURIST PRIOR TO EXCAVATION.

KEY

- SHARED POROUS PAVING STORAGE VOLUME USED IN ATTENUATION CALCULATIONS
- PRIVATE POROUS PAVING STORAGE VOLUME NOT USED IN ATTENUATION CALCULATIONS
- BIO-RETENTION RAIN GARDEN
- RAINWATER HARVESTING TANK
- SURFACE WATER MANHOLE
- FLOW CONTROL CHAMBER
- SURFACE WATER SEWER WITH PIPE CODE DIAMETER AND GRADIENT
- HEADWALL
- GULLY OR ROAD GULLY
- GABION BASKET/MATRESS

EXISTING DITCH TO BE CLEARED AND EXTENDED WITH NEW BAGWORK HEADWALL ON EXISTING DN300 CULVERT INLET (ALL WORKS TO BE UNDERTAKEN WITHIN PUBLIC HIGHWAY BOUNDARY)

CONCRETE CHANNEL TO BE BROKEN OUT AND REPLACED WITH DN300 CULVERT WITH BAGWORK HEADWALL ON INLET (ALL WORKS TO BE UNDERTAKEN WITHIN PUBLIC HIGHWAY BOUNDARY)

EXISTING SEALED CATHPIT MANHOLE TO BE REPLACED WITH 1800mm DIAMETER CATCHPIT MANHOLE WITH 675x675 D400 ACCESS TO BE LOCATED WITHIN FOOTWAY

EXISTING 625mm CULVERTED WATERCOURSE TO BE DIVERTED INTO NEW WATERCOURSE THROUGH SITE FRONTAGE

GABION MATRESS FOR EROSION CONTROL AT OUTLETS AND INLETS ALONG NEW WATERCOURSE

LEVEL DROP WEIR IN WATERCOURSE UPSTREAM OF CULVERT TO IMPROVE CAPACITY AND PROVIDE SUFFICIENT COVER TO CULVERT

EXISTING 625mm CULVERTED WATERCOURSE TO BE REMOVED

0m 12.5m
SCALE 1:250

PERMEABLE BERM CONSTRUCTED USING GABION BASKETS 2.0mx1.0mx0.5m

DETENTION BASIN TO REMAIN UNLINED BED TO BE LAID FLAT 0.4m BELOW OUTLET PIPE TO PROVIDE INTERCEPTION STORAGE FOR FIRST 5mm RAINFALL RUNOFF FROM PAVED AREAS

HYDROBRAKE FLOW CONTROL CHAMBER [CTL-SHE-0129-8000-1200-8000] DISCHARGE_8.0/s @ 1.2m DEPTH CL 32.676m IL 31.188m 300mm DN OUTLET PIPE @ 1:136

INLET TO EXISTING 225mm (assumed) CULVERT TO BE LOCATED BY HAND DIGGING IN RPA WITH NEW BAGWORK HEADWALL TO BE INSTALLED

EXISTING 225mm (assumed) CULVERT TO BE RETAINED

PERMEABLE BERM CONSTRUCTED USING GABION BASKETS 2.0mx1.0mx0.5m

SUDS ATTENUATION BASIN PROVIDING 1,233m³ OF ATTENUATION STORAGE VOLUME WITH 300mm FREEBOARD TO TOP OF BANK (MAX STvol 1,586m³)

EXISTING SEALED CATHPIT MANHOLE TO BE REPLACED WITH 1800mm DIAMETER CATCHPIT MANHOLE WITH 675x675 D400 ACCESS TO BE LOCATED WITHIN VERGE

INSET 1
SCALE 1:250)

SUDS ATTENUATION BASIN PROVIDING 1,233m³ OF ATTENUATION STORAGE VOLUME WITH 300mm FREEBOARD TO TOP OF BANK (MAX STvol 1,586m³)

EXISTING SEALED CATHPIT MANHOLE TO BE REPLACED WITH 1800mm DIAMETER CATCHPIT MANHOLE WITH 675x675 D400 ACCESS TO BE LOCATED WITHIN VERGE

NEW FOUL WATER CONNECTION ONTO EXISTING DN175 FOUL SEWER. EXACT POSITION TO BE AGREED WITH SOUTHERN WATER FOLLOWING A FULL PAS128 SCAN OF EXISTING UTILITIES IN CHAPEL ROAD

EXISTING SECTION OF DAMAGED CULVERT TO BE REPLACED (REFER TO METHOD STATEMENT IN ARB REPORT FOR DETAILS)

REV	DESCRIPTION	DRN	CHK	DATE
C	STORAGE VOLUMES UPDATED	TSW	TSW	23.09.25
B	FOUL DRAINAGE NETWORK AND CONNECTION ADDED	TSW	TSW	23.09.25
A	MINOR AMENDMENTS TO NEW WATERCOURSE SUDS UPDAED TO INCLUDE ADDITIONAL BRG	TSW	TSW	22.09.25

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miller homes

JOB TITLE
BARNS GREEN
HORSHAM

DRAWING TITLE
SURFACE WATER AND SUDS DRAINAGE STRATEGY

DATE	DRAWN	CHECKED	ISSUE CHECKED
SEPT 2025	TSW	TSW	

DRAWING NO. 0018.401 REV C SCALE 1:250 @ A0