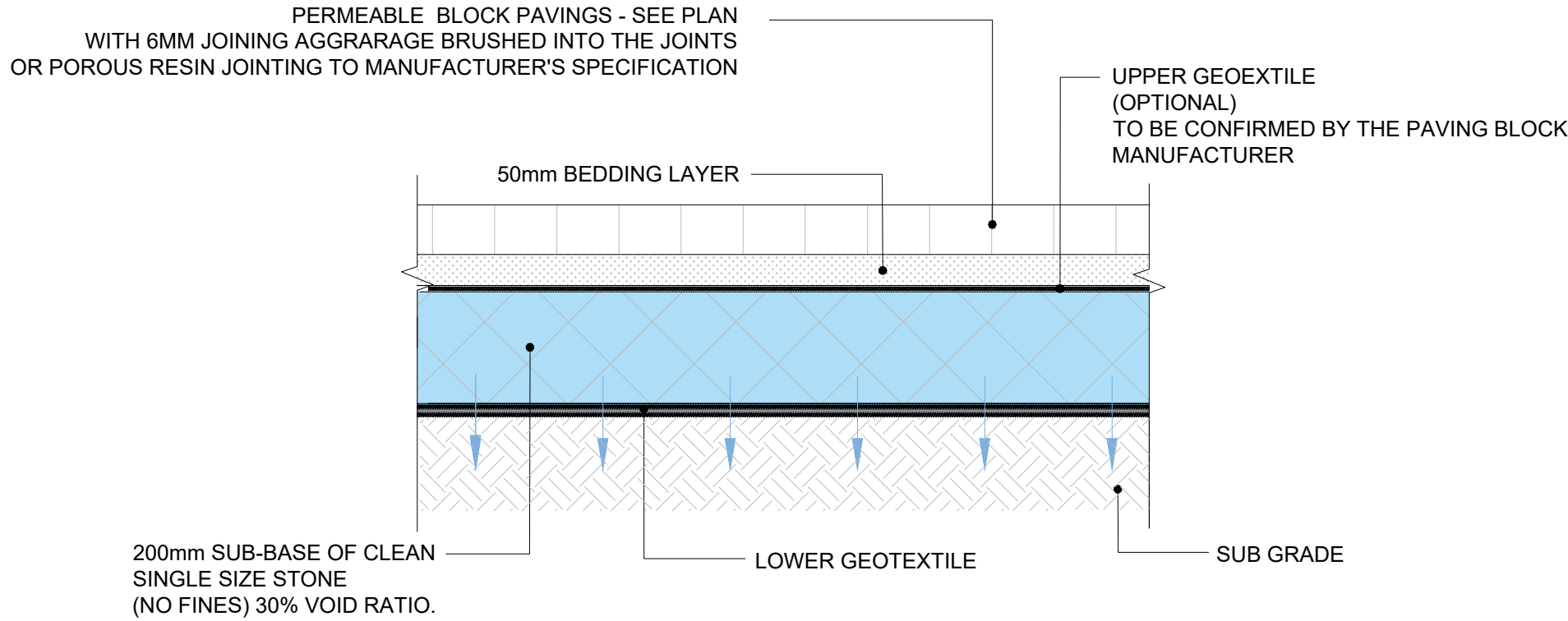
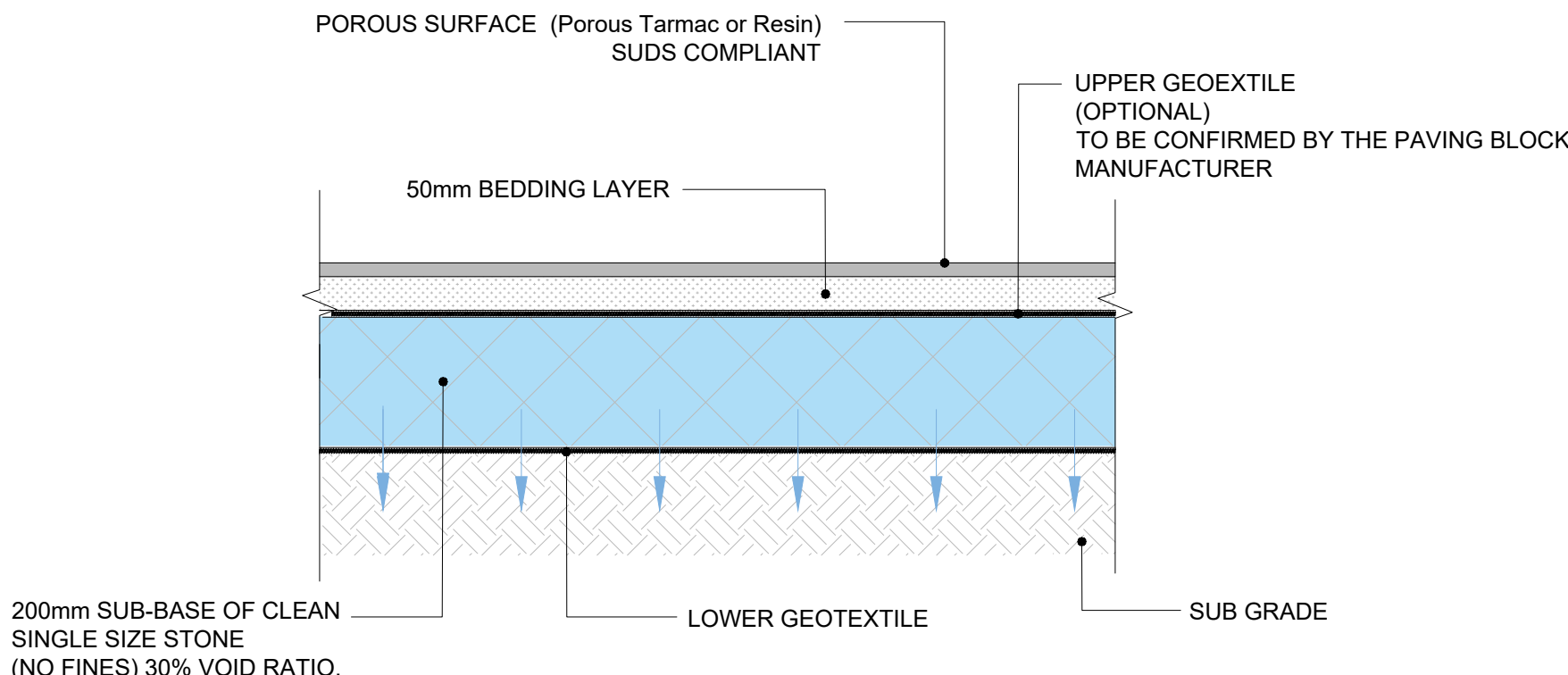




TYPICAL POROUS PAVING BLOCK DETAIL 'A'
(MARSHALLS PRIORA BLOCK OR SIMILAR APPROVED)



TYPICAL POROUS SURFACE TO DRIVEWAYS 'B'
(POROUS TARMAC OR PERMEABLE RESIN BOUND SURFACE- SUDS COMPLIANT)

- KEY
- CP1 CROSSING POINT MARKER
 - RWP BIG PROPOSED RAINWATER DOWNPIPE & BACK INLET GULLY
 - RE PROPOSED PRIVATE RODDING EYE
 - PROPOSED PRIVATE SURFACE WATER DRAIN
 - PROPOSED PRIVATE SURFACE WATER INSPECTION CHAMBER
 - CH PROPOSED THRESHOLD DRAIN CHANNEL BY OSMO OR SIMILAR
 - SVP PROPOSED SOIL VENT PIPE
 - PROPOSED PRIVATE FOUL WATER DRAIN
 - PROPOSED PRIVATE FOUL WATER INSPECTION CHAMBER
 - EXISTING PRIVATE COMBINED WATER SEWER
 - EXISTING PUBLIC COMBINED SEWER

- DENOTES LAWN/LANDSCAPED AREA
- DENOTES IMPERMEABLE ROOF AREA - 224 SQ M
- DENOTES PERMEABLE DRIVEWAYS SURFACES, ON FREE DRAINING SUB-BASE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S DESIGN AND SPECIFICATION. DEPTH OF FREE DRAINING SUB-BASE LAYER SUBJECT TO CONFIRMATION OF SITE SPECIFIC INFILTRATION COEFFICIENT.
- DENOTES AREAS OF PERMEABLE PAVING SURFACES (MARSHALLS PRIORA BLOCK OR SIMILAR APPROVED) SET WITH A MIN 6MM PERMEABLE JOINT OR POROUS RESIN JOINTING, ON FREE DRAINING SUB-BASE STONE AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S DESIGN AND SPECIFICATION. DEPTH OF FREE DRAINING SUB-BASE LAYER SUBJECT TO CONFIRMATION OF SITE SPECIFIC INFILTRATION COEFFICIENT.

NOTE:

SURFACE WATER SCHEME DESIGN TO PROVIDE SURFACE WATER ATTENUATION FOR RAINFALL EVENTS UP TO AND INCLUDING 100yr INCLUDING A 40% CLIMATE CHANGE ALLOWANCE.

ALL HARDSTANDINGS TO BE PERMEABLE WITH STORAGE SUB-BASE LAYER (Type 3) 30% VOID RATIO. SUB-BASE STORAGE LAYER DEPTH TO BE CONFIRMED FOLLOWING SITE PERCOLATION TESTS.

RUNOFF FROM IMPERMEABLE ROOF AREAS (0.025ha) WILL BE ATTENUATED WITHIN CELLULAR ATTENUATION STRUCTURE BY POLYPIPE OR SIMILAR APPROVED, AND DISCHARGED AT MAXIMUM RATE OF 5l/s (DESIGN HEAD OF 0.9m) TO EXISTING PRIVATE COMBINED CHAMBER WITHIN APPLICATION SITE BOUNDARY COMMUNICATING WITH COMBINED PUBLIC SEWER WITHIN CHANDOS RD SOUTH.

EXCEEDANCE FLOWS WILL BE SAFELY DIRECTED AWAY FROM VULNERABLE AREAS TOWARDS LANDSCAPED AREAS AND HIGHWAY.

DO NOT SCALE FROM THIS DRAWING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

DRAINAGE NOTES
(OSMADRAIN PVC-U 100MM NOMINAL INTERNAL DIAMETER GRAVITY DRAIN).

- SETTING OUT SHOULD BE UNDERTAKEN FROM ARCHITECT'S DRAWINGS AND DETAILS. DO NOT SCALE FROM THIS DRAWING.
- ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH BS EN752: BRITISH STANDARD FOR DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS AND THE BUILDING REGULATIONS, ALL WHERE RELEVANT.
- THE ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES TO THE DETAILS SHOWN ON THE DRAINAGE AND ANY UNRECORDED CONNECTIONS NOT SHOWN ON THE DRAWINGS. A CCTV SURVEY OF ALL THE DRAINAGE SHOULD BE CARRIED OUT ON COMPLETION OF THE BUILDING WORKS AND PASSED ON TO THE CLIENT.
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS AND LEVELS AND FOR CONFIRMING THE GIVEN LEVEL OF OUTFALL INTO PUBLIC SEWER, WATERCOURSE OR OTHER OUTFALL.
- NEW PRIVATE PLOT DRAINAGE AND LATERAL DRAINS FOR SURFACE AND FOUL WATER TO BE OSMADRAIN PVC-U 110mm GRAVITY DRAIN UNO.
- ALL PIPE BEDDING AND ENCASING TO BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DETAILS, APPROPRIATE TO THE SITE CONDITIONS AND LOCATIONS USED. THERMOPLASTIC PIPES UNDER ROADS AND ACCESSWAYS WITH DEPTH OF COVER LESS THAN 900MM, TO BE CONCRETE ENCASED.
- ALL MANHOLES AND INSPECTOR CHAMBERS TO COMPLY WITH BSEN 752-3:1996 AND BUILDING REGULATION APPROVED DOCUMENT PART 'H' :2015.
- MANHOLE COVERS TO COMPLY WITH BSEN 124.
- TYPE N - SUITABLE FOR LOAD CLASS A15 (PEDESTRIAN, CYCLIST AND GARDENS)
- TYPE HD - SUITABLE FOR LOAD CLASS D400 (CAR PARKS AND ROADS).
- DRAINAGE CHANNELS/ SLOT DRAINS TO ARCHITECT OR LANDSCAPING ARCHITECT'S SPECIFICATION. INSTALLED TO MANUFACTURERS DESIGN, RECOMMENDATIONS AND GUIDELINES.
- CONTRACTOR TO SEEK APPROVAL / APPLY FOR ALL NEW SEWER CONNECTIONS WHERE REQUIRED.
- ALL 100mm NOMINAL INTERNAL DIAMETER SURFACE WATER DRAINS TO BE INSTALLED AT GRADIENT NOT FLATTER THAN 1:100.
- ALL 150MM NOMINAL INTERNAL DIAMETER SURFACE WATER DRAINS TO BE INSTALLED AT GRADIENT NOT FLATTER THAN 1:150.
- ALL FOUL PIPES BENEATH BUILDINGS AND FROM SVPS, GULLIES AND WC CONNECTIONS TO ACCESS CHAMBERS TO BE 100mm AT A MINIMUM GRADIENT OF 1:40 UNLESS NOTED OTHERWISE.
- MINIMUM GRADIENT OF 100mm FOUL PIPE BETWEEN ACCESS CHAMBERS OUTSIDE BUILDING TO BE MINIMUM 1 IN 80 UNO.
- ALL FOUL CONNECTIONS TO BE FULLY TRAPPED AND EACH FOUL CONNECTION TO A BRANCH DRAIN TO BE FULLY RODDABLE (E.G. LOW LEVEL RODDING ACCESS).
- ALL ROAD GULLY PIPEWORK SPURS TO BE 150mm DIA U.N.O.
- ALL SERVICE COVERS TO BE RECESSED WHERE POSITIONED IN PAVED AREAS.
- ALL SURFACE WATER GULLIES TO HAVE TRAPPED OUTLETS.
- PERMEABLE SURFACE INSTALLATION SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH DESIGN SPECIFICATION, METHOD STATEMENTS AND RECOMMENDATIONS OF THE BLOCK PAVING MANUFACTURER.

INDICATIVE LOCATION OF EXISTING COMBINED WATER CHAMBER, LOCATION, DEPTH, BENCHING PLAN, CL, IL AND CONNECTIVITY TO BE CONFIRMED.

INDICATIVE LINE OF EXISTING 150MM Ø COMBINED DRAIN TO REMAIN

FOUNDATION DETAILS / PIPE PROTECTION IN STRICT ACCORDANCE WITH STRUCTURAL ENGINEER DETAILS, SEE FOUNDATION PLAN AND DETAILS.

INDICATIVE LOCATION OF EXISTING COMBINED WATER CHAMBER, MH LOCATION, DEPTH, BENCHING PLAN, CL, IL TO BE CONFIRMED. LATERAL DRAIN DIAMETER, CONDITION AND CONNECTIVITY WITH COMBINED PUBLIC SEWER TO BE CONFIRMED.

NOTE

SURFACE AND FOUL WATER DRAINAGE SCHEME BASED UPON UNITED UTILITIES RECORD PLANS. INVERT LEVELS AND LOCATIONS OF CHAMBERS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION WORKS AND ANY DISCREPANCIES WITH DETAILS SHOWN TO BE REPORTED TO THE ENGINEER

PROPOSED DRAINAGE PLAN
SCALE 1:100

CHANDOS ROAD SOUTH

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
STATUS DESCRIPTION				STATUS	
FOR PLANNING				S0	

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PROJECT

25 CHANDOS RD SOUTH
(2No. SEMI-DETACHED HOUSES)

DRAWING TITLE

PROPOSED DRAINAGE PLAN

CLIENT

ST WERBURGH DEVELOPMENTS

HBL REF.	9056	SCALE(S)	1:100	DATE	APRIL 2021
DRAWN	ES	CHECKED	H.LONG	APPROVED	H.LONG

DRAWING No.	9056-HBL-XX-XX-DR-D-0400	REV.	P01
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