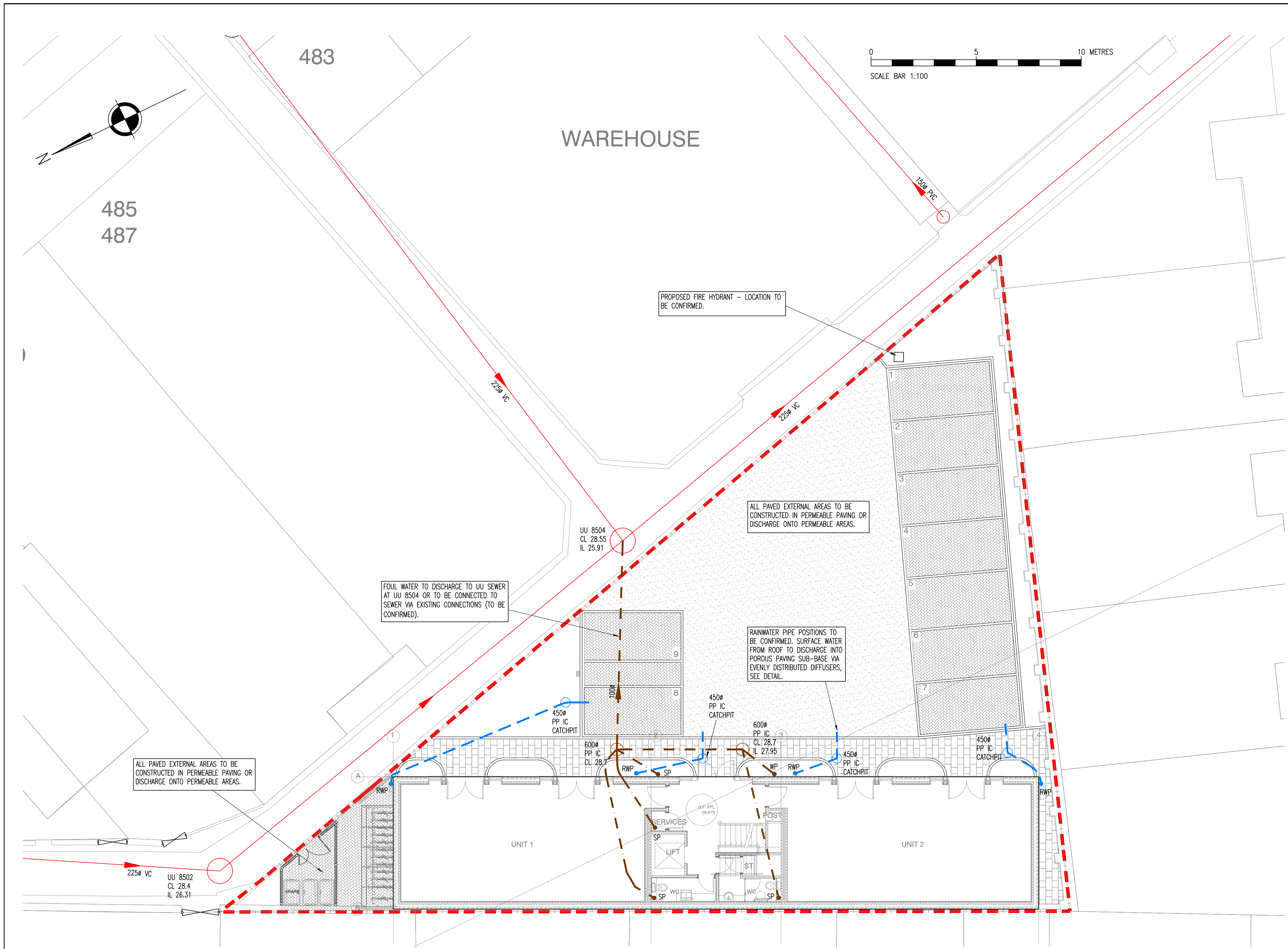




CONSTRUCTION NOTES

- UN-ADOPTED FW & SW DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS, INCLUDING APPROVED DOCUMENT H (UPDATED 2015); BS EN 752:2008 AND OTHER RELEVANT STANDARDS AND CERTIFICATES.
- THE LOCATION AND LEVELS OF EXISTING DRAINAGE PIPES AND CULVERTS MUST BE CHECKED ON-SITE PRIOR TO CONSTRUCTION.
- ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.
- DRAINS ARE TO BE CONSTRUCTED USING FLEXIBLY JOINTED VITRIFIED CLAY PIPES TO BS 65 (1991) AND BS EN 295 (2012 / 2013); OR UPVC BUILDING DRAINAGE SYSTEM PIPEWORK TO BS 4660 (2000), BS EN 13589-1 (2010) * BS EN 1401-1 (2009); BEDDED & BACKFILLED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.
- BACKFILLING OF DRAIN TRENCHES ADJACENT TO DWELLINGS OR OTHER STRUCTURES TO BE IN ACCORDANCE WITH BS EN 1610 (1998) AND APPROVED DOCUMENT H.
- ACCESS FITTINGS & INSPECTION CHAMBERS <1.2m DEEP ARE TO BE CLAYWARE OR PRE-FORMED POLYPROPYLENE AS APPROPRIATE TO THE NUMBER OF CONNECTIONS. POLYPROPYLENE CHAMBERS CAN BE USED UP TO 3m DEEP BUT REQUIRE A MAX 350mm DIAMETER REDUCED COVER TO PREVENT MAN ENTRY. INSPECTION CHAMBER SIZES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH BS EN 752 (2008).
- MANHOLE CHAMBERS ARE TO BE OF PRECAST CONCRETE CONSTRUCTION WITH 150mm INSITU CONCRETE SURROUND WITH A MINIMUM CLEAR OPENING OF 600mm.
- COVER LEVELS INDICATED ON THE DRAWINGS OR WITHIN THE MANHOLE SCHEDULE ARE NOMINAL AND MAY BE ADJUSTED TO SUIT FINISHED LEVELS AS NECESSARY. INSPECTION CHAMBER COVERS SHOULD BE GRADE A15 FOR PEDESTRIAN AREAS ONLY; B125 FOR AREAS WITH OCCASIONAL VEHICLE ACCESS AND D400 WITHIN THE PUBLIC HIGHWAY AND MAIN ACCESS YARD.
- WHERE DRAINS PASS THROUGH FOUNDATIONS OR OTHER RIGID STRUCTURES, A LINTEL, OR SLEEVE IS TO BE USED & PROVISION FOR FLEXIBILITY IS TO BE MADE WITH ROCKER PIPES.
- CONCRETE PROTECTION REQUIRED TO PIPES WHERE DEPTH OF PIPE FROM GROUND LEVEL TO BARREL IS <0.6m WITHIN NON-TRAFFICKED AREAS; <0.9m WITHIN DOMESTIC DRIVEWAYS AND LIGHT ROADS; AND <1.2 m WITHIN THE PUBLIC HIGHWAY, OTHERWISE SEWERS TO BE LAID IN CLASS 5 BEDDING (150mm GRANULAR BED & SURROUND)
- WHERE PIPES RUN UNDER BUILDINGS AND WHERE COVER TO UNDERSIDE OF SLAB IS LESS THAN 300mm, PROVIDE A CONCRETE BED AND SURROUND.
- UNLESS NOTED OTHERWISE, ALL FOUL DRAINS ARE 100mm DIA. AND SURFACE WATER DRAINS ARE 150mm DIA. SURFACE WATER CONNECTIONS FROM RWP'S TO BE 100mm DIA.
- MINIMUM GRADIENTS (UNLESS NOTED OTHERWISE):
FOUL
100 DIA FROM OUTLETS WITHIN BUILDING TO INSPECTION CHAMBER 1:40, THEREAFTER 1:80
SURFACE WATER
100 DIA 1:100, 150 DIA 1:150
- ALL REDUNDANT DRAINS AND CHAMBERS TO BE REMOVED AS FAR AS PRACTICABLE OR ELSE GROUTED AND SEALED.
- BEDDING AND BACKFILL TO CONFORM TO THE REQUIREMENT OF THE WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTORS AND BENDS.
- THE POSITIONS OF SVP'S, STUB-STACKS, WC OUTLETS AND RAINWATER DOWNPIPES ARE TO BE ACCURATELY LOCATED FROM THE ARCHITECT'S DRAWINGS.
- CATCHPIT CHAMBERS ARE REQUIRED TO HAVE A MINIMUM 300mm SUMP.

KEY:

- EXISTING UNITED UTILITIES
 - COMBINED SEWER
 - PROPOSED SURFACE WATER DRAIN
 - PROPOSED FOUL WATER DRAIN
 - PROPOSED RAIN WATER PIPE
 - PROPOSED ROODING EYE
 - PROPOSED SOIL PIPE
 - WASTE PIPE
- RWP
RE
SP
WP

SW DRAINAGE AMENDED FOLLOWING PLANNING CONSULTATION. RAINWATER PIPE DIFFUSER DETAIL ADDED.				SD	EJ	02.03.22
P4	NOTES AMENDED. PAVEMENT DETAILS ADDED.			SD	SJR	17.11.21
P3	FIRE HYDRANT RELOCATED AS PER ARCHITECT'S INSTRUCTION			SD	SJR	10.06.21
P2	ARCHITECT'S COMMENTS INCORPORATED			SD	SJR	04.06.21
P1	ISSUED FOR APPROVAL			SD	SJR	17.05.21
Rev	Details			Drawn By	Checkd By	Date

Client:	BOS2 MANCHESTER LIMITED
Project:	BALROW MOOR CENTRE
Title:	PROPOSED DRAINAGE GENERAL ARRANGEMENT
Issued For:	LOCAL AUTHORITY APPROVAL

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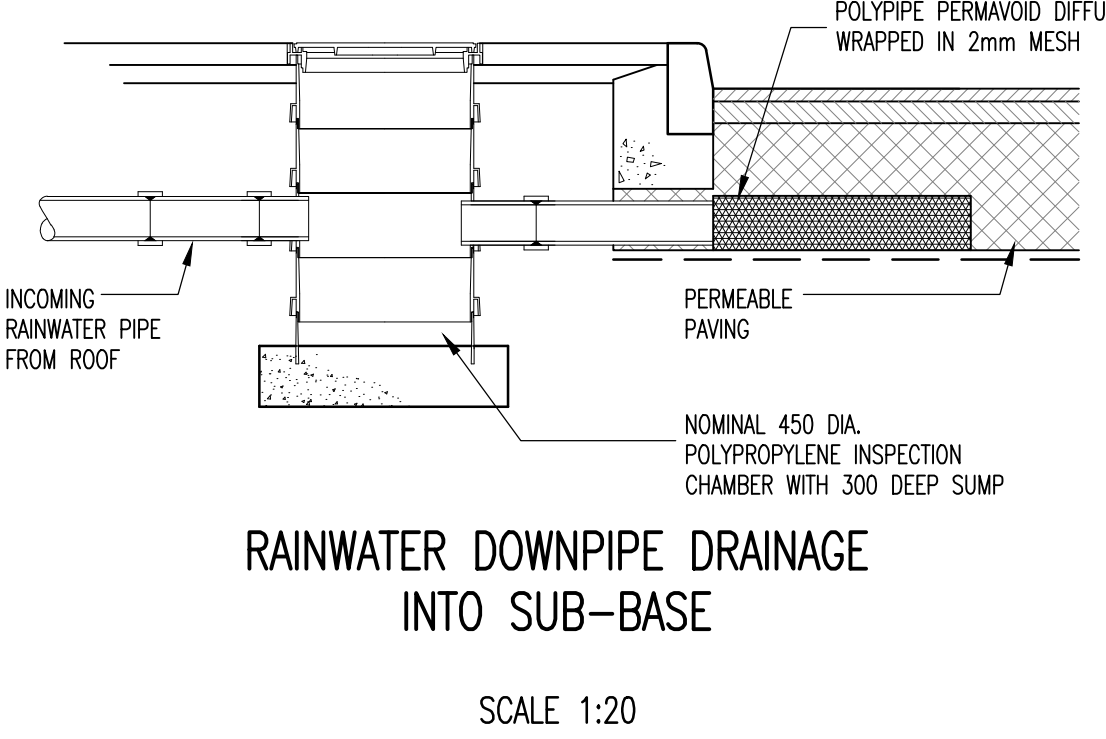
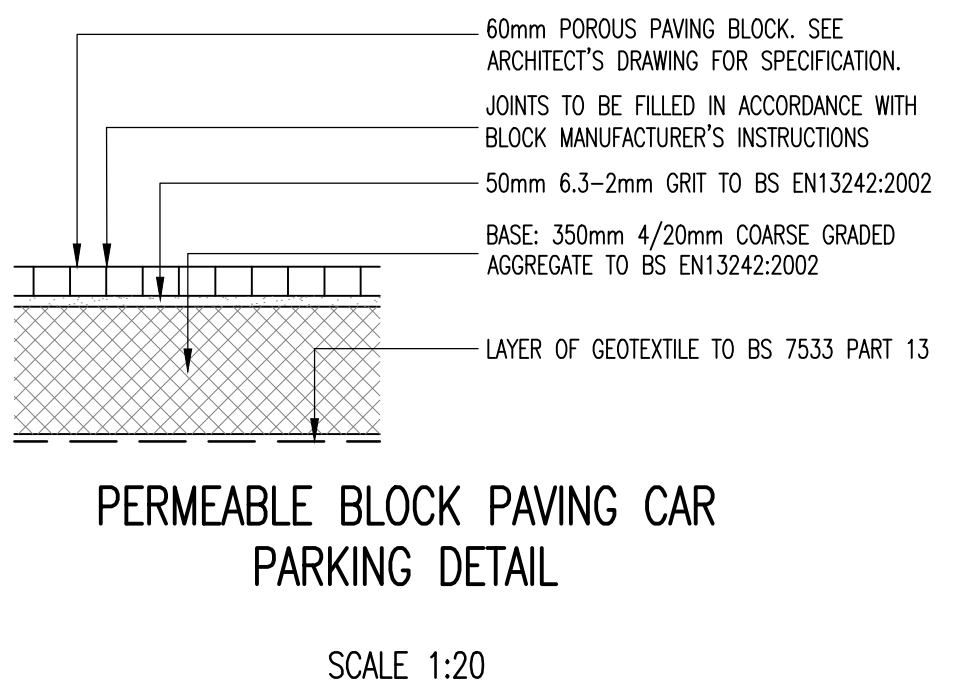
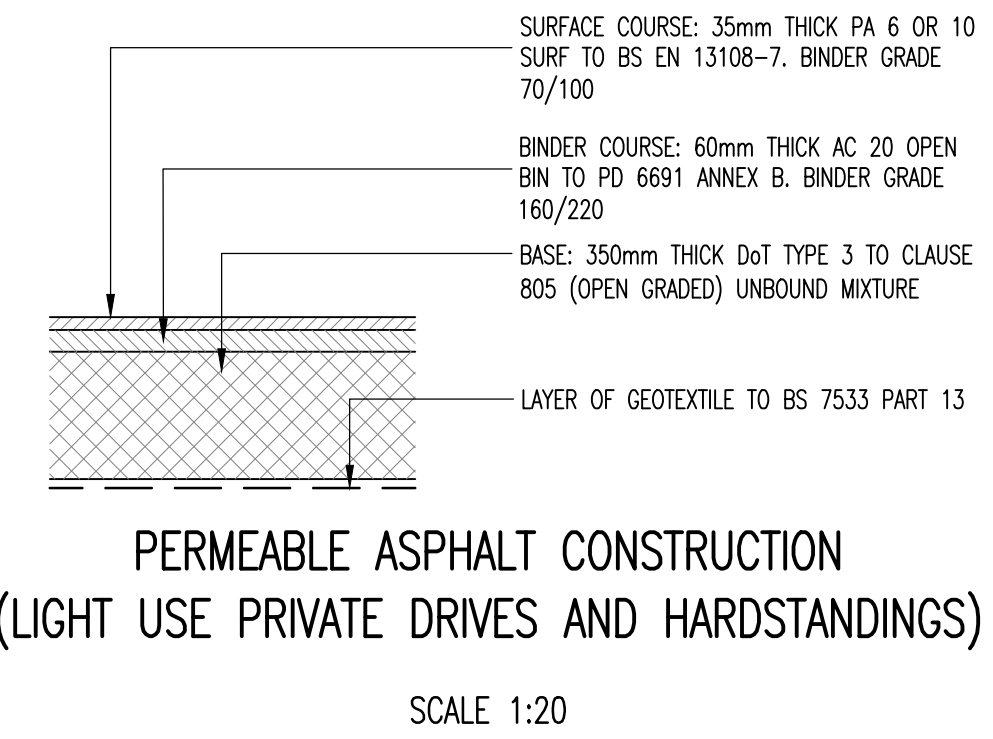
Scale:	1:100 @ (A1)				
Project No:	10607	Drawing No:	401	Issue:	P5

DO NOT SCALE - USE FIGURED DIMENSIONS ONLY.
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ISO 9001:2015
REGISTERED
QUALITY ASSURANCE

CONSTRUCTION NOTE:
THE SUB-BASE THICKNESSES SHOWN ARE BASED ON AN ASSUMED CBR OF 5%. SITE TESTING IS REQUIRED PRIOR TO CONSTRUCTION TO DETERMINE ACTUAL CBR AT FORMATION LEVELS.

IT MAY BE POSSIBLE TO REDUCE CAPPING THICKNESSES IN AREAS WHERE LOW CBR VALUES ARE FOUND BY INCORPORATING A GEGRID OR GEOTEXTILE AT FORMATION LEVEL.



PRELIMINARY DRAWING.
NOT FOR CONSTRUCTION.