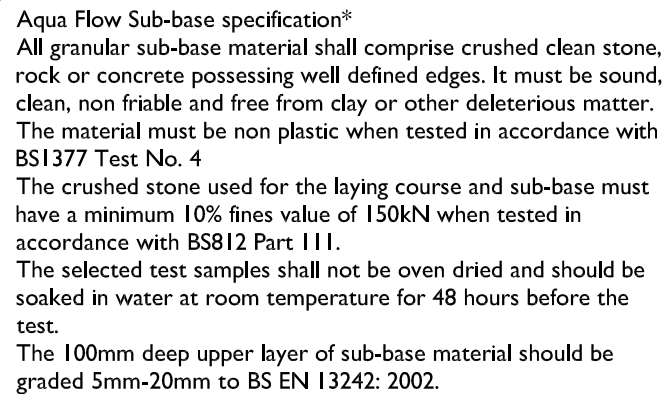




BS EN Sieve size	% passing
80mm	100
63mm	90-100
40mm	60-80
20mm	15-30
10mm	0-5

Capping Layer

The subgrade will need to achieve a minimum CBR of 15% prior to the installation of the Aquaflo system granular 6F5 capping material in accordance with clause 613 of the Highways Agency specification is to be used in accordance with the table below.

SUBGRADE CBR (%) RANGE	< 2	2 - 2.5	2.5 - 3	3 - 4	4 - 5	5 - 7.5	7.5 - 10	10 - 12.5	12.5 - 15
CAPPING LAYER	* 600	450	400	350	300	250	225	200	150

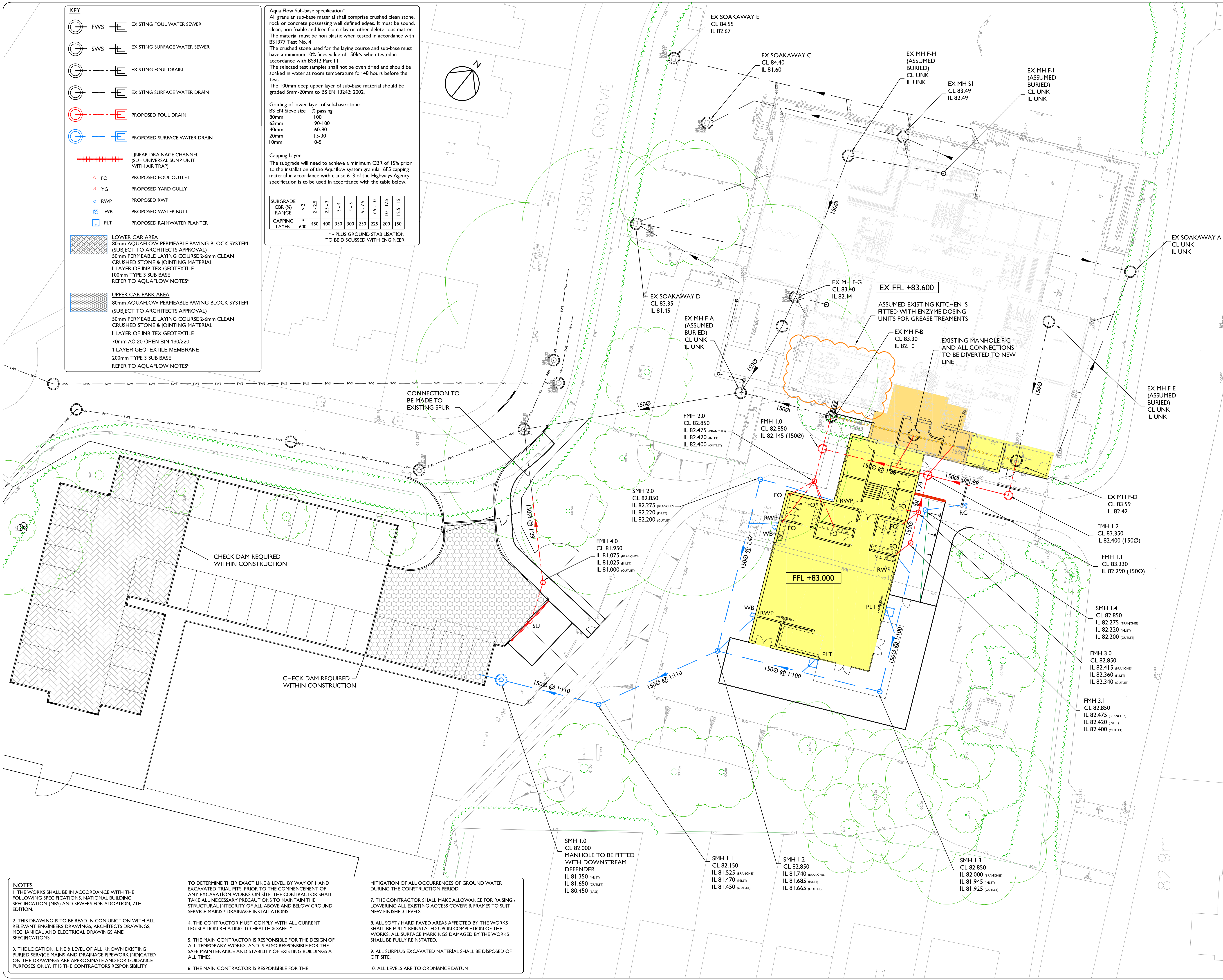
* - PLUS GROUND STABILISATION
TO BE DISCUSSED WITH ENGINEER



LOWER CAR AREA
 80mm AQUAFLOW PERMEABLE PAVING BLOCK SYSTEM
 (SUBJECT TO ARCHITECTS APPROVAL)
 50mm PERMEABLE LAYING COURSE 2-6mm CLEAN
 CRUSHED STONE & JOINTING MATERIAL
 1 LAYER OF INBITEX GEOTEXTILE
 100mm TYPE 3 SUB BASE
 REFER TO AQUAFLOW NOTES*



UPPER CAR PARK AREA
 80mm AQUAFLOW PERMEABLE PAVING BLOCK SYSTEM
 (SUBJECT TO ARCHITECTS APPROVAL)
 50mm PERMEABLE LAYING COURSE 2-6mm CLEAN
 CRUSHED STONE & JOINTING MATERIAL
 1 LAYER OF INBITEX GEOTEXTILE
 70mm AC 20 OPEN BIN 160/220
 1 LAYER GEOTEXTILE MEMBRANE
 200mm TYPE 3 SUB BASE
 REFER TO AQUAFLOW NOTES^o



NOTES

1. THE WORKS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, NATIONAL BUILDING SPECIFICATION (NBS) AND SEWERS FOR ADOPTION, 7TH EDITION.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, ARCHITECTS DRAWINGS, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
3. THE LOCATION, LINE & LEVEL OF ALL KNOWN EXISTING BURIED SERVICE MAINS AND DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY. IT IS THE CONTRACTORS RESPONSIBILITY

TO DETERMINE THEIR EXACT LINE & LEVEL. BY WAY OF HAND EXCAVATED TRIAL PITS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE MAINS / DRAINAGE INSTALLATIONS.

4. THE CONTRACTOR MUST COMPLY WITH ALL CURRENT LEGISLATION RELATING TO HEALTH & SAFETY.

5. THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY WORKS, AND IS ALSO RESPONSIBLE FOR THE SURFACE MAINTENANCE AND STABILITY OF EXISTING BUILDINGS AT ALL TIMES.

6. THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE

MITIGATION OF ALL OCCURRENCES OF GROUND WATER DURING THE CONSTRUCTION PERIOD.

7. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR RAISING LOWERING AND/OR REPAIRING ACCESS COVERS & FRAMES TO SUIT NEW FINISHED LEVELS.

8. ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED UPON COMPLETION OF THE WORKS. ALL SURFACE MARKINGS DAMAGED BY THE WORKS SHALL BE FULLY REINSTATED.

9. ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE.

10. ALL LEVELS ARE TO ORDINANCE DATUM

DRAINAGE NOTES:

1. ALL WORKS TO BE CONDUCTED IN STRICT ACCORDANCE WITH SPECIFICATION OF THE LOCAL AUTHORITY, BS8380 1985 & BSEN 752-1.
2. ALL PIPE RUNS NEAR BUILDINGS TO COMPLY WITH A FOUNDATION TRENCHES 2002 PART II. WHERE A PIPE IS WITHIN 1M OF A FOUNDATION, THE TRENCH SHALL BE FILLED WITH CLASS G/3 CONCRETE UP TO THE LOWEST LEVEL OF THE FOUNDATION. WHERE THE TRENCH IS FURTHER THAN 1M FROM THE FOUNDATION, THE TRENCH SHALL BE FILLED WITH CLASS G/3 CONCRETE TO A LEVEL BELOW THE LOWEST LEVEL FOR THE FOUNDATION EQUAL TO THE DISTANCE FROM THE FOUNDATION LESS 150MM. IN BOTH CASES THE PIPE SHALL BE BEDDED AND SURROUNDED IN 150MM THICK CLASS G/3 CONCRETE.
3. WHERE PIPES, EXTERNAL TO THE STRUCTURES, HAVE A DEPTH TO SOFTEN FROM GROUND LEVEL OF LESS THAN 600mm THEY SHALL HAVE A CLASS G/3 CONCRETE ENCASEMENT (150mm THICK).
4. WHERE A PIPE UNDER A CARRIAGEWAY, HAS A DEPTH OF COVER OF LESS THAN 1.2m THE PIPE SHALL BE LAID IN A CLASS Z BEDDING.
5. WHERE PIPES ARE BEDDED AND SURROUNDED IN CONCRETE, FLEXIBLE JOINTS SHOULD BE PROVIDED. COMPRESSIBLE BOARDS (FIBREBOARD OR POLYSTYRENE) SHALL BE PROVIDED AT A MAXIMUM OF 90 CENTIMETRES (COINCIDING WITH PIPE JOINTS). THE BOARDS SHALL BE PRE-CUT TO PIPE DIAMETER AND TO A HEIGHT AND WIDTH EQUAL TO THE CONCRETE CROSS SECTION. A BOARD THICKNESS OF 18mm FOR PIPES UP TO 450MM NOMINAL DIAMETER AND 30mm FOR PIPES OVER 450MM NOMINAL DIAMETER.
6. ALL PRIVATE DRAINAGE DRAINAGE SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH BSEN752-1.
7. UNLESS OTHERWISE SPECIFIED, DRAINAGE TO BE 100mm INTERNAL DIAMETER.
8. MINIMUM GRADIENT FOR Ø100mm SURFACE DRAINAGE PIPES IS 1:60, AND Ø150mm IS 1:100.
9. MINIMUM GRADIENTS FOR FOUl DRAINAGE PIPES:
Ø100mm: 1:40 WHERE FLOW IS LESS THAN I/L, OR WHERE NO W/Cs ARE CONNECTED.
Ø150mm: 1:70 WHERE FLOW IS I/L OR GREATER, OR WHERE AT LEAST I/NO. W/Cs ARE CONNECTED.
Ø150mm: 1:135 WHERE FLOW IS LESS THAN S/L, OR WHERE UP TO S/NO. W/Cs ARE CONNECTED.
Ø150mm: 1:135 WHERE FLOW IS S/L OR GREATER, OR WHERE S/NO. OR MORE W/Cs ARE CONNECTED.
10. ALL GULLIES NOT CONNECTED TO INSPECTION CHAMBERS ARE TO BE KODDABLE.
11. ALL GULLY CONNECTIONS OTHER THAN THOSE AT MANHOLES TO BE MADE VIA T JUNCTIONS.
12. GULLIES COINCIDENT WITH PEDESTRIAN/DRIVE CROSSINGS TO HAVE PEDESTRIAN TYPE GULLY COVERS.
13. ALL ROAD GULLY CONNECTIONS TO BE 150mm DIAMETER AND ANY GULLY CONNECTIONS SUBJECT TO TRAFFIC LOADING TO HAVE CLASS Z BEDDING & SURROUND
14. ALL SUB STUBS TO BE FITTED WITH AN AIR ADMITTANCE VALVES WHERE BRANCH DRAIN EXCEEDS 12m EXCEPT AT THE HEAD OF THE RUN. SOIL VENT PIPES LOCATED AT THE HEAD OF A RUN TO BE INSTALLED WITH ROOF TILE VENT.
15. ALL CONNECTIONS TO BE MADE FROM SOFT TO SOFT UNLESS WERE NOTED OTHERWISE
16. TRENCH TEMPORARY FORDWORK IS REQUIRED TO ALL EXCAVATIONS EXCEEDING 1.2m DEPTH TO PROVIDE ADEQUATE SUPPORT AND STABILITY AT ALL TIMES.
17. SEWERS ARE TO BE CONSTRUCTED IN SINGLE SECTIONS BETWEEN MANHOLES ONLY. TRENCHES TO BE BACKFILLED PRIOR TO EXCAVATING THE SUCCEEDING SEWER RUN.
18. ALL CONCRETE AND CONCRETE PRODUCTS TO BE IN ACCORDANCE WITH BRE 363 FOR SULPHATES.
19. WHERE SEWER OR DRAINS ARE TO BE ABANDONED THEY SHALL BE REMOVED OR INFILLED BY GROUTING IN ACCORDANCE WITH THE CIVIL ENGINEER SPECIFICATION FOR THE WATER INDUSTRY 7TH EDITION, CLAUSE 5.23.
20. EXTERNAL RAIN WATER PIPES TO HAVE ACCESS POINTS 1m ABOVE GROUND LEVEL. (REFER TO DETAIL WITHIN CONSTRUCTION DETAILS)

P02	UPDATED AFTER CCTV SURVEY	RAH	LLM	JPS	13.08.20
P01	ISSUED FOR SAB APPLICATION	RAH	LLM	JPS	03.08.20
REV	DESCRIPTION	BY	CHK	APR	DATE



PURPOSE OF ISSUE		STATUS
FOR INFORMATION		S2
PROJECT		
BARKER'S LANE CP SCHOOL		
TITLE		
DRAINAGE PROPOSED LAYOUT		
CLIENT		
READ CONSTRUCTION		
DRAWN BY RAH	CHECKED BY LLM	APPROVED BY JP
DATE 03.08.2020	SCALE (@ A1) 1:200	PROJECT NUMBER 10031
DRAWING NUMBER BLS-JPS-XX-XX-DR-C-0502		REV P02