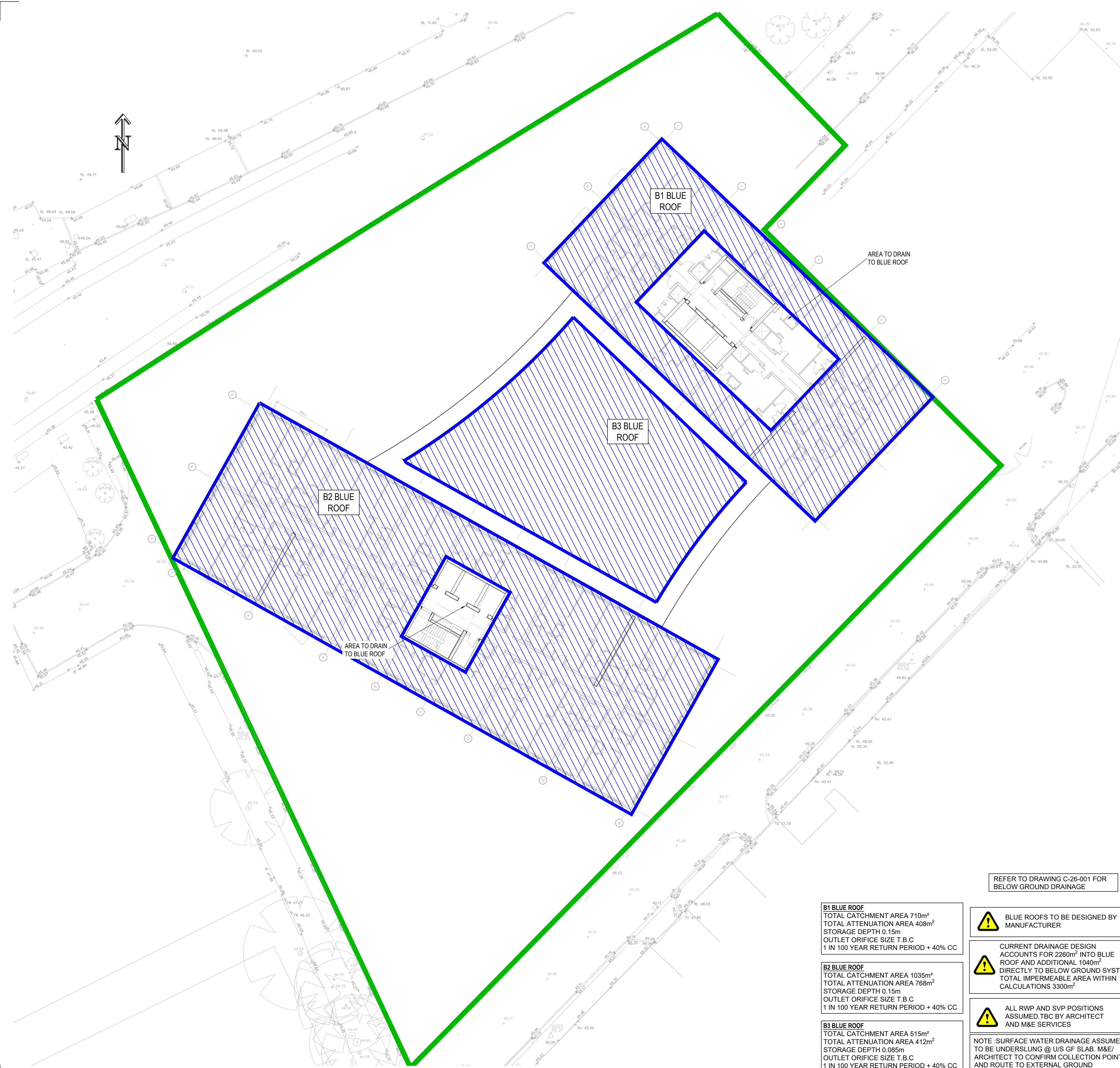




LEGEND

SITE BOUNDARY

PROPOSED BLUE ROOF

- DRAINAGE NOTES:
1.

ALL WORKS TO BE CONDUCTED IN STRICT ACCORDANCE WITH SPECIFICATION OF THE LOCAL AUTHORITY, BS8301 1985 & BSEN.752-1.
2.

ALL PIPE RUNS NEAR BUILDINGS TO COMPLY WITH THE BUILDING REGULATIONS 2002 PART H1. WHERE A PIPE IS WITHIN 1M OF A FOUNDATION THE TRENCH SHALL BE FILLED WITH CLASS GEN3 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 GEN3 CONCRETE TO A LEVEL BELOW THE LOWEST LEVEL FOR THE FOUNDATION EQUAL TO THE DISTANCE FROM THE FOUNDATION LESS 150M. IN BOTH CASES THE PIPE SHALL BE BEDDED AND SURROUNDED IN 150M THICK CLASS GEN3 CONCRETE.
3.

WHERE PIPES, EXTERNAL TO THE STRUCTURES, HAVE A DEPTH TO SOFFIT FROM GROUND LEVEL OF LESS THAN 600mm THEY SHALL HAVE A CLASS GEN3 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 8M CENTRES (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 36mm FOR PIPES OVER 450mm NOMINAL DIAMETER.
6.

ALL PRIVATE BUILDING DRAINAGE SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH BSEN.752-1.
7.

UNLESS OTHERWISE SPECIFIED, BUILDING DRAINAGE TO BE 150mm 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 1L/S, OR WHERE NO WCS ARE CONNECTED.
Ø100mm: 1:80 WHERE FLOW IS 1L/S OR GREATER, OR WHERE AT LEAST 1NO. WC IS CONNECTED
Ø150mm: 1:135 WHERE FLOW IS LESS THAN 5L/S, OR WHERE UP TO 5No. WCS ARE CONNECTED.
Ø150mm: 1:150 WHERE FLOW IS 5L/S OR GREATER, OR WHERE 5No. OR MORE WCS ARE CONNECTED
10.

ALL GULLIES NOT CONNECTED TO INSPECTION CHAMBERS ARE TO BE RODDABLE.
11.

ALL GULLY CONNECTIONS OTHER THAN THOSE AT MANHOLES TO BE MADE VIA 'Y' 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 STUB STACKS TO BE FITTED WITH 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 SOFFIT TO SOFFIT UNLESS WERE NOTED OTHERWISE.
16.

ALL MANHOLES SHALL BE WATERTIGHT.
17.

TRENCH TEMPORARY FORMWORK IS REQUIRED TO ALL EXCAVATIONS EXCEEDING 1.2m DEPTH TO PROVIDE ADEQUATE SUPPORT AND STABILITY AT ALL TIMES.
18.

SEWERS ARE TO BE CONSTRUCTED IN SINGLE SECTIONS BETWEEN MANHOLES ONLY. TRENCHES TO BE BACKFILLED PRIOR TO EXCAVATING THE SUCCEEDING SEWER RUN.
19.

ALL CONCRETE AND CONCRETE PRODUCTS TO BE IN ACCORDANCE WITH BRE 363 FOR SULPHATES.
20.

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.
21.

SEWERS MUST HAVE 6M CLEARANCE FROM TREES AND 3m FROM SHRUBS - AS PER SEWERS FOR ADOPTION 6TH EDITION FIGURE 2.3.
22.

EXTERNAL RAIN WATER PIPES TO HAVE ACCESS POINTS 1m ABOVE GROUND LEVEL. (REFER TO DETAIL WITHIN CONSTRUCTION DETAILS)
23.

ALL DRAINAGE TO BE CCTV SURVEYED FOLLOWING CONSTRUCTION.
24.

REFER TO SPECIFICATION FOR DETAILS OF PIPE BEDDING BENEATH / ADJACENT TO FLOOR SLAB & FOUNDATIONS.

REFER TO DRAWING C-26-001 FOR BELOW GROUND DRAINAGE

- B1 BLUE ROOF

TOTAL CATCHMENT AREA 710m²

TOTAL ATTENUATION AREA 408m²

STORAGE DEPTH 0.15m

OUTLET ORIFICE SIZE T.B.C

1 IN 100 YEAR RETURN PERIOD + 40% CC
- B2 BLUE ROOF

TOTAL CATCHMENT AREA 1035m²

TOTAL ATTENUATION AREA 768m²

STORAGE DEPTH 0.15m

OUTLET ORIFICE SIZE T.B.C

1 IN 100 YEAR RETURN PERIOD + 40% CC
- B3 BLUE ROOF

TOTAL CATCHMENT AREA 515m²

TOTAL ATTENUATION AREA 412m²

STORAGE DEPTH 0.085m

OUTLET ORIFICE SIZE T.B.C

1 IN 100 YEAR RETURN PERIOD + 40% CC

- BLUE ROOFS TO BE DESIGNED BY MANUFACTURER
- CURRENT DRAINAGE DESIGN ACCOUNTS FOR 2280m² INTO BLUE ROOF AND ADDITIONAL 1040m² DIRECTLY TO BELOW GROUND SYSTEM. TOTAL IMPERMEABLE AREA WITHIN CALCULATIONS 3300m²
- ALL RWP AND SVP POSITIONS ASSUMED.TBC BY ARCHITECT AND M&E SERVICES
- NOTE :SURFACE WATER DRAINAGE ASSUMED TO BE UNDERSLUNG @ U/S GF SLAB. M&E/ ARCHITECT TO CONFIRM COLLECTION POINTS AND ROUTE TO EXTERNAL GROUND

- Notes
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATIONS.

• IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE. DIMENSIONS MUST NOT BE SCALED FROM THIS DRAWING. ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.

• ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

• ALL LEVELS ARE IN METRES, UNLESS NOTED OTHERWISE.
- GENERAL NOTES

1.

THE WORKS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS. NATIONAL BUILDING SPECIFICATION (NBS) AND SEWERS FOR ADOPTION, 7TH EDITION & VOLUME 1 OF THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS..

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 SAFE 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 ALL EXISTING ACCESS COVERS & FRAMES TO SUIT NEW FINISHED LEVELS.

8.

CONTRACTOR TO CONFIRM THE CONDITION OF THE EXISTING PIPES BEFORE REUSE. ANY PIPES THAT ARE BROKEN SHOULD BE LINED, REPAIRED OR REPLACED. ANY PIPES THAT ARE BLOCKED SHOULD BE CLEARED.

9.

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.

10.

ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE.

11.

ALL LEVELS ARE TO ORDNANCE DATUM.

12.

CONTRACTOR TO CONFIRM THE LOCATION AND LEVEL OF ALL SERVICES, PRIOR TO COMMENCEMENT OF WORKS.

13.

CONTRACTOR TO CONFIRM THE CONNECTION TO EXISTING NETWORKS IS VIABLE, PRIOR TO COMMENCEMENT OF WORKS.

P2	07.02.22	DAB	UPDATED TO SUIT LATEST EPG CALCS	JS
P1	26.11.21	DAB	FIRST ISSUE	JS
Rev	Date	By	Description	Appld
Revisions				
Status				

PRELIMINARY

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QMS

ISO 9001:2015
REGISTERED

Client

group

OLYMPIAN

Architect

DAY ARCHITECTURAL

Project

THE FAIRFAX, MANCHESTER

Title			
BLUE ROOF DRAINAGE GENERAL ARRANGEMENT			
Scale		Drawn	Revision
1:200 @ A1		SB	
Date		Checked	P2
Nov '21'		DB	
Drawing Ref : Project no/Originator/volume/level/type/Rev/Number			
895		C-26-004	