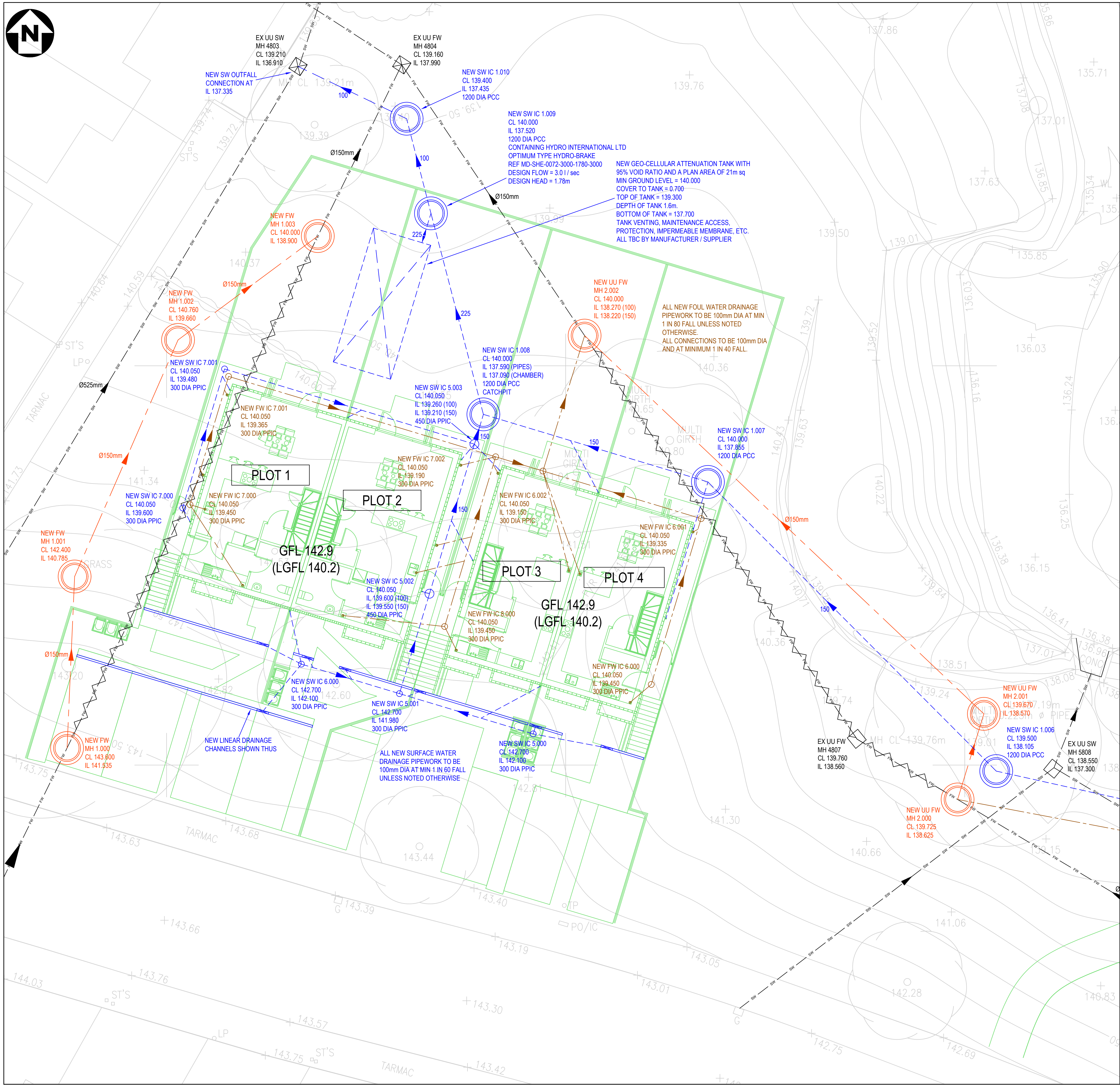




SURFACE WATER DRAINAGE STRATEGY

THE SURFACE WATER DRAINAGE PROPOSALS HAVE BEEN DESIGNED IN ACCORDANCE WITH BS EN 752-4 AND THE BUILDING REGULATIONS APPROVED DOCUMENT H (2010), WHICH INDICATES THE FOLLOWING HIERARCHY FOR THE DISPOSAL OF SURFACE WATER DRAINAGE FROM DEVELOPMENT SITES:-

1. DISCHARGE VIA INFILTRATION;
2. DISCHARGE TO WATERCOURSE;
3. DISCHARGE TO SEWER.

THESE OPTIONS ARE DISCUSSED IN FURTHER DETAIL BELOW.

SURFACE WATER DISCHARGE VIA INFILTRATION

FROM THE ONLINE BGS RECORDS AND THE SITE SPECIFIC FLOOD RISK ASSESSMENT THE GROUND CONDITIONS AT THE SITE APPEAR UNLIKELY TO SUIT THE USE OF INFILTRATION TECHNIQUES FOR DRAINING THE PROPOSED DWELLINGS AND THEIR ASSOCIATED HARD LANDSCAPED AREAS. THE GROUND CONDITIONS SHOULD BE CONFIRMED BY INTRUSIVE INVESTIGATION BEFORE WORK COMMENCES ON SITE, AND IF IT IS FOUND THAT THEY ARE SUITED TO INFILTRATION TECHNIQUES THEN THE PROPOSALS SHOWN CAN BE AMENDED TO SUIT.

SURFACE WATER DISCHARGE VIA WATERCOURSE

THERE IS A WATERCOURSE ADJACENT TO THE SITE WHICH WOULD BE SUITABLE FOR THE DISPOSAL OF SURFACE WATER FROM THIS SITE

SURFACE WATER DISCHARGE VIA THE PUBLIC SEWERAGE SYSTEM

IT IS UNDERSTOOD THAT THE EXISTING PUBLIC SURFACE WATER SEWER NETWORK CURRENTLY DISCHARGES TO THE ADJACENT EXISTING WATERCOURSE, THEREFORE IT IS PROPOSED TO DISCHARGE SURFACE WATER RUNOFF FROM THE SITE TO THE ADJACENT WATERCOURSE VIA THE PUBLIC SEWER NETWORK'S EXISTING OUTFALL RATHER THAN CONSTRUCTING A NEW ONE.

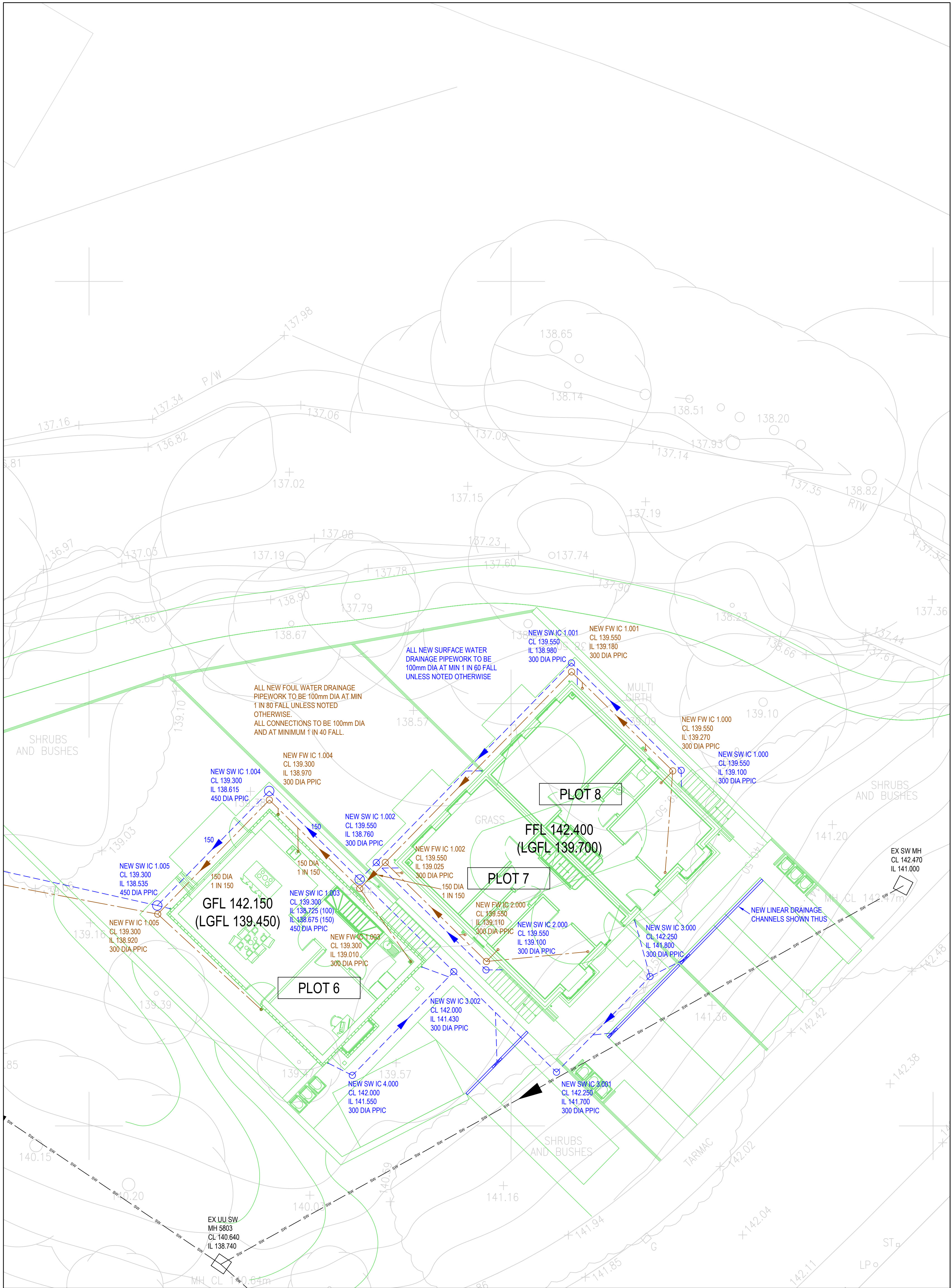
PROPOSED RUNOFF RATE

IT IS PROPOSED TO DISCHARGE THE SURFACE WATER RUNOFF FROM THE DEVELOPMENT AT 3 l / sec FOR ALL STORM EVENTS UP TO AND INCLUDING THE CRITICAL 1 IN 100 YEAR EVENT INCLUDING A 40% CLIMATE CHANGE ALLOWANCE.

TO ENSURE THAT THE ALLOWABLE DISCHARGE RATE IS NOT EXCEEDED, A HYDRO-BRAKE FLOW CONTROL DEVICE WILL BE EMPLOYED AT THE DOWNSTREAM END OF THE PROPOSED DRAINAGE SYSTEM, WITH ATTENUATION STORAGE PROVIDED IN A GEO-CELLULAR TANK LOCATED BENEATH THE REAR GARDEN AREAS.

IN LINE WITH MODERN DESIGN STANDARDS FOR SURFACE WATER DRAINAGE SYSTEMS, THE PROPOSALS SHOWN HAVE BEEN FORMULATED TO ENSURE THERE WILL BE:-

1. NO SURCHARGING OF SEWERS FOR THE CRITICAL 1 IN 1 YEAR STORM EVENT.
2. NO SURFACE FLOODING FOR THE CRITICAL 1 IN 30 YEAR EVENT.
3. NO SURFACE FLOODING THAT MAY AFFECT BUILDINGS ON OR OFF SITE FOR THE CRITICAL 1 IN 100 YEAR EVENT INCLUDING A 40% CLIMATE CHANGE ALLOWANCE.



GENERAL NOTES

NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH AND SAFETY PLAN.

FOR DETAILS OF MATERIALS AND WORKMANSHIP REFER TO THE SPECIFICATION.

THE CONTRACTOR IS RESPONSIBLE FOR CHECKING INVERT LEVELS AND POSITIONS OF ALL EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES SHOWN ON THIS DRAWING IMMEDIATELY ON SITE ESTABLISHMENT. ANY DISCREPANCIES MUST BE REPORTED TO WML CONSULTING IMMEDIATELY.

WHERE THE NEW SITE DRAINAGE CONNECTS IN TO EXISTING MANHOLES IN CARRIAGEWAYS AND OR EXISTING ADAPTED SEWERS, THE CONTRACTOR IS RESPONSIBLE FOR ALL LIAISON WITH THE RELEVANT STATUTORY UNDERTAKER AND LOCAL AUTHORITY WITH REGARD TO ROAD CLOSURES, TRAFFIC MANAGEMENT, PERMITS TO WORK, SUBMISSION OF CONTRACTORS METHOD STATEMENTS AND RISK ASSESSMENTS AND OTHER DOCUMENTATION AND CORRESPONDENCE ASSOCIATED WITH THE SITE STAGE (PART 2) ELEMENT OF THE WORKS.

ROCKER PIPES TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.

PROVIDE ADEQUATE PROTECTION TO MAINTAIN MINIMUM COVER TO DRAINS DURING THE CONSTRUCTION PERIOD.

COVER LEVELS ON THIS DRAWING ARE APPROXIMATE AND INDICATIVE ONLY ARCHITECT TO CONFIRM COVER LEVELS TO ALL MANHOLES AND GULLIES PRIOR TO CONSTRUCTION.

THE LAYOUT OF DRAINAGE ON THIS DRAWING IS INDICATIVE ONLY ARCHITECT TO CONFIRM EXACT LOCATION OF MANHOLES AND GULLIES.

UNLESS NOTED OTHERWISE PIPEWORK AND FITTINGS TO BE:-

- UPTO 225 DIA (AND INCLUDING) TO BE SUPERSEIVE VITRIFIED CLAY PIPES OR TWIN WALLED STRUCTURED PLASTIC APPROVED BY THE ENGINEER
- 300 DIA AND ABOVE TO BE CONCRETE BY STANTON BONNA OR TWIN WALLED STRUCTURED PLASTIC APPROVED BY THE ENGINEER

ALL COVERS AND RODDING ACCESS POINTS TO BE SEALED AND SCREWED TIGHT.

SETTING OUT OF ALL INTERNAL GULLY / PLUMBING CONNECTIONS TO BE CO-ORDINATED BETWEEN THE SERVICE ENGINEERS AND THE ARCHITECT.

ALL INTERNAL GULLIES, PLUMBING CONNECTIONS, SOIL STACKS, SVPS AND ALL OTHER CONNECTIONS OF FOUL AND SURFACE WATER DRAINS TO BELOW GROUND TO BE FITTED WITH ACCESSIBLE RODDING POINTS ABOVE SLAB LEVEL.

ALL CONNECTIONS TO BE MADE IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS.

ALL PIPEWORK TO BE INSTALLED WITH SOFFITS LEVEL (E.G. AT CHANGES IN PIPE SIZE) U.N.Q.

ON COMPLETION OF DRAINAGE WORKS, THE NEW DRAINAGE SYSTEM IS TO BE THOROUGHLY CLEANED AND A CCTV SURVEY CARRIED OUT TO CONFIRM NO CONSTRUCTION DEBRIS OR BLOCKAGES REMAIN.

ALL PRIVATE DRAINAGE IS TO COMPLY WITH BS EN 752 AND BUILDING REGS. PART H.

PIPE GRADIENTS ARE INDICATIVE MINIMUMS.

SURFACE CHANNEL DRAINS TO BE A20 MULTIDRAIN OR SIMILAR.

MANHOLE COVERS TO BE EN124 CLASS D400 IN VEHICULAR AREAS AND EN124 CLASS C250 IN NON - VEHICULAR AREAS.

REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF ANY MANHOLE COVERS WHICH REQUIRE INSET PANELS.

MAINTENANCE OF THE BELOW GROUND DRAINAGE SYSTEM

THE SURFACE WATER DRAINAGE PROPOSALS INDICATED ARE RELATIVELY TRADITIONAL IN NATURE, AND SHOULD PROVIDE YEARS OF RELATIVELY LOW MAINTENANCE OPERATION IN RELATION TO THE ANTICIPATED LIFESPAN OF THE PROPOSED DEVELOPMENT.

IN LINE WITH CURRENT GOOD PRACTICE:-

- GULLIES AND LINEAR DRAINAGE CHANNELS SHOULD BE INSPECTED AND / OR CLEANED OUT AT 6 MONTHLY INTERVALS.
- INSPECTION CHAMBERS, MANHOLES, CATCH-PITS, ETC. SHOULD BE INSPECTED AT 6 MONTHLY INTERVALS TO ENSURE THAT THE PIPEWORK AND ANY FLOWS CONTROLS ASSOCIATED WITH THEM ARE OPERATING EFFECTIVELY.
- ANY PROBLEMS HIGHLIGHTED BY THESE INSPECTIONS WILL NEED TO BE INVESTIGATED, POSSIBLY BY CCTV SURVEY, TO CONFIRM THE NATURE OF THE PROBLEM AND TO ALLOW IT TO BE REMEDIED IN A TIMELY MANNER. IT IS UNDERSTOOD THAT THE MONITORING AND ROUTINE MAINTENANCE OF THE BELOW GROUND DRAINAGE SYSTEM WILL BE CARRIED OUT BY THE RESIDENTS WITH ADDITIONAL HELP PROVIDED BY EXTERNAL SPECIALIST DRAINAGE PROFESSIONALS BROUGHT IN AS REQUIRED.

PRELIMINARY

P04	NOTES UPDATED.	20.09.23	KPT	MS
P03	UPDATED TO SUIT REVISED DEVELOPMENT LAYOUT.	21.06.23	KPT	MS
P02	UPDATED TO SUIT REVISED DEVELOPMENT LAYOUT AND CLIENT COMMENTS.	02.03.23	KPT	MS
P01	PRELIMINARY ISSUE.	30.09.22	DB	MS

Rev.	Amendment	Date	By	Chkd
------	-----------	------	----	------

Project

LONGCLOUGH DRIVE GLOSSOP

Client

MPS CONSTRUCTION

Title

PROPOSED PRIVATE DRAINAGE GENERAL ARRANGEMENT

WML Job No.	Drawn	Checked	Date	Scale
9405	DB	MS	SEPT 2022	1:100 @ A1

WML CONSULTING Civil, Structural & Geotechnical Engineers	No 8 Oak Green East Road Sharncliffe Business Park Charncliffe House Charncliffe Road B24, Telford TF1 1AB Tel : 01827 442 0000 Fax : 01827 446 9010 email: info@wmlconsulting.com www.wmlconsulting.com
---	---

Drawing No.

Project Originator Volume Level Type Role Number Rev

9405 - WML - 00 - XX - DR - C - 1010 P04