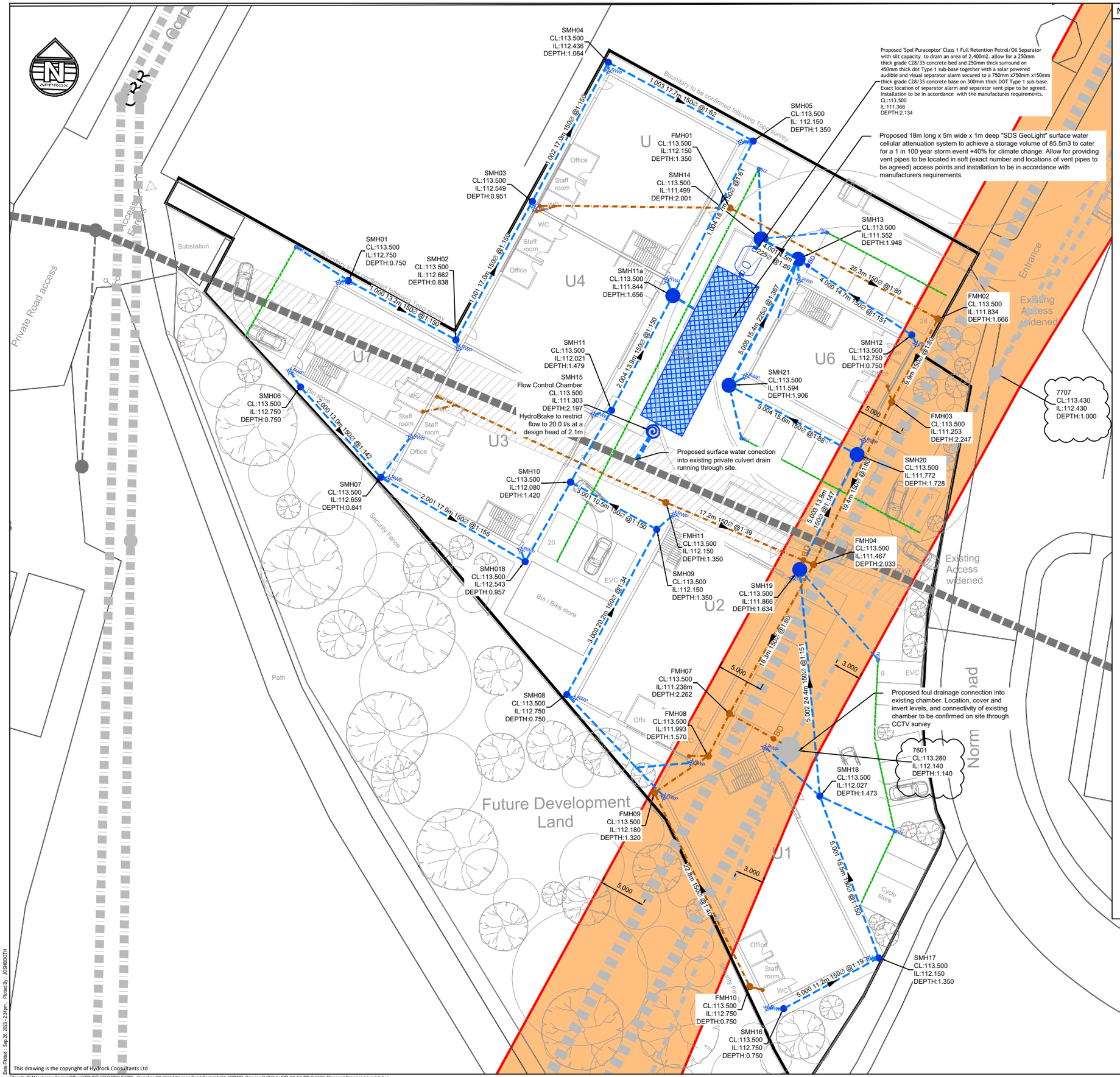


NOTES

1. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE.
2. 'MARKED UP' DRAWINGS ARE TO BE PROVIDED TO THE ENGINEER UPON COMPLETION TO ENABLE PRODUCTION OF 'AS BUILT' DRAWING IN ACCORDANCE WITH CONSTRUCTION (DESIGN & MANAGEMENT): 2015 REGULATIONS 22(j).
3. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE PUBLIC UTILITIES.
4. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN-OFF INTO EXCAVATION AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE-WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS,
5. ALL EXTERNAL DRAINAGE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH 'CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY' 7th EDITION FOR ADOPTABLE DRAINAGE, AND TO THE RELEVANT PROJECT SPECIFICATION AS DIRECTED BY THE ENGINEER FOR PRIVATE DRAINAGE.
6. PIPE MATERIAL SHALL BE AS FOLLOWS:
 100Ø TO 225Ø - CLAYWARE TO BS EN 295
 300Ø AND ABOVE - CONCRETE TO BS EN 1916.
 DRAINAGE PROPOSED FOR ADOPTION TO COMPLY WITH THE MATERIALS SPECIFIED ABOVE.

 N.B PVCu PIPES TO BE EN 1401-1:1998 MAY BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER. PIPES OF LESS THAN 400MM DIAMETER TO HAVE A RESISTANCE OF 270 BAR.
7. ALL FOUL PIPES ARE TO BE 100Ø UNLESS STATED OTHERWISE OR TO SUIT ABOVE GROUND PIPEWORK. SURFACE WATER PIPE DIAMETERS ARE AS INDICATED

 PIPE GRADIENTS UNLESS SHOWN ARE:

 FOUL:
 MINIMUM GRADIENT WITH W.C. TO BE 1:80.
8. UNLESS OTHERWISE NOTED INVERT LEVEL AT REST BEND TO BE 450mm BELOW FFL. SLOW BENDS ARE REQUIRED AT THE BASE OF ALL SOIL AND VENT PIPES
9. CLAY AND CONCRETE PIPES SHALL BE BEDDED ON CLASS S BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICKED AREAS, THEN CLASS Z BEDDING. DRAINAGE PROPOSED FOR ADOPTION TO COMPLY WITH THE BEDDINGS SPECIFIED ABOVE.
10. WHERE THE CROWN OF THE PIPE IS WITHIN 300MM OF THE UNDERSIDE OF THE SLAB, THE PIPEWORK SHOULD BE SURROUNDED WITH 150MM CONCRETE.
11. UPVC PIPES SHALL BE BEDDED ON CLASS P BEDDING UNLESS COVER IS LESS THAN 1.2m IN TRAFFICKED AREAS, THEN CLASS Q OR Z BEDDING.
12. BACKFILL TO TRENCHES MAY BE SUITABLE EXCAVATED MATERIAL IN LANDSCAPED AREAS & UNDER DRIVEWAYS, PATIOS ETC. TYPE 1 GRANULAR MATERIAL TO BE USED UNDER HARDSTANDINGS AND ROADS.
13. DESIGN OF THE DRAINAGE CHANNELS IS INDICATIVE ONLY. DETAILED DESIGN SHALL BE UNDERTAKEN BY THE CONTRACTOR'S PREFERRED CHANNEL MANUFACTURER/ SUPPLIER.
14. ALL MANHOLE AND DRAINAGE CHANNEL COVERS SHALL COMPLY WITH BS EN 124. MANHOLES LOCATED WITHIN TRAFFICKED AREAS TO HAVE D400 GRADE COVERS.
15. VENTILATION SHALL BE PROVIDED AT THE HEAD OF FOUL DRAINAGE RUNS. FOR SETTING OUT OF SOIL AND RAINWATER PIPES, SEE ARCHITECT'S LAYOUT
16. ACCESS FOR RODDING/JETTING SHALL BE PROVIDED TO ALL SOIL AND RAINWATER DOWNPIPES ABOVE BASEMENT FLOOR LEVEL.
17. FOR DETAILS OF MANHOLE TYPES AND PIPE BEDDING ETC, SEE STANDARD DETAIL DRAWING(S).
18. COVER LEVELS SHOWN ARE APPROXIMATE. COVERS SHOULD BE ADJUSTED TO MATCH SURROUNDING FINISH LEVELS.
19. THE CONTRACTOR IS TO PROTECT EXISTING BURIED PIPES (PARTICULARLY SHALLOW PIPES) AND TREE ROOTS FROM DAMAGE CAUSED BY LOADS IMPOSED BY CONSTRUCTION.
20. ROCKERS PIPE REQUIRED WHERE DRAINAGE EXITS PAD FOUNDATION. REFER STANDARD DETAIL.

NOTES

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BEFORE THE COMMENCEMENT OF WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT AND ENGINEER FOR VERIFICATION. FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWING.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS' AND SERVICE ENGINEERS' DRAWINGS AND SPECIFICATIONS.
4. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE
5. EXISTING GROUND INFORMATION SHOWN ON THIS DRAWING IS BASED UPON EXISTING SITE PLAN DATED 08.02.2022.
6. INDICATIVE SITE BOUNDARY TAKEN FROM DRAWING "Option 2 Site Plan" RECEIVED 08/02/2022.

LEGEND

- EXISTING UNITED UTILITIES SURFACE WATER DRAINAGE
- EXISTING UNITED UTILITIES COMBINED DRAINAGE
- PROPOSED FOUL DRAINAGE
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED RAIN WATER PIPE
- PROPOSED FOUL BACKDROP
- PROPOSED CHANNEL DRAIN
- PROPOSED ATTENUATION TANK

NOTE:
INFORMATION SHOWN ON THIS DRAWING IS FOR PLANNING PURPOSES ONLY, AND IS NOT TO BE USED FOR CONSTRUCTION. SUBJECT TO CHANGE FOLLOWING DETAILED DESIGN.

NOTE:
EXISTING DRAINAGE TO BE CCTV SURVEYED TO CONFIRM LOCATION, COVER AND INVERT LEVELS, CONNECTIONS AND SUITABILITY FOR RE-USE

REV						
P02	UNITED UTILITIES EASEMENT ADDED					
	J. BOOTH	26.09.23	N. BYRNE	26.09.23	N. BYRNE	26.09.23
P01	PRELIMINARY ISSUE					
	J. BOOTH	15.09.22	L. PILSBURY	15.09.22	R. HENSHALL	15.09.22
REV	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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CLIENT
1.618 ARCHITECTS

PROJECT
NORMAN ROAD, ROCHDALE

TITLE
PROPOSED DRAINAGE LAYOUT

HYDROCK PROJECT NO.	SCALE @ A1
C-25654	1:100

STATUS DESCRIPTION	STATUS
INFORMATION ONLY	

DRAWING NO. (PROJECT-CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)
C25652-HYD-XX-XX-DR-C-0500

REVISION
P02

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Date Plotted: Sep 26, 2023 - 2:34pm Plotted By: JOSHBOOTH