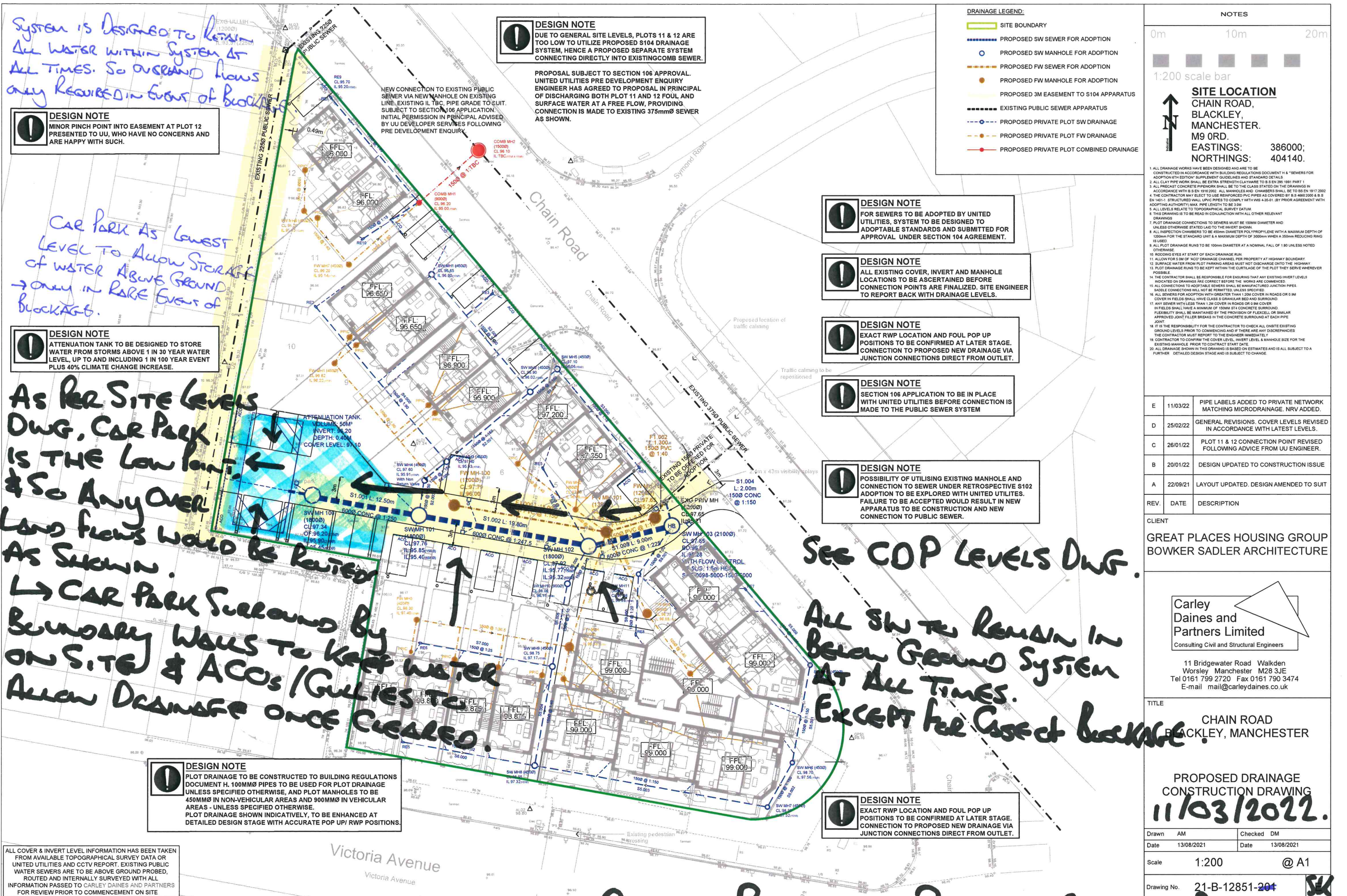




System is designed to retain all water within system at all times. So overland flows only required in event of blockage.

DESIGN NOTE
MINOR PINCH POINT INTO EASEMENT AT PLOT 12 PRESENTED TO UU, WHO HAVE NO CONCERNS AND ARE HAPPY WITH SUCH.

Car Park As Lowest Level To Allow Storage of water Above Ground -> only in rare event of blockage.

DESIGN NOTE
ATTENUATION TANK TO BE DESIGNED TO STORE WATER FROM STORMS ABOVE 1 IN 30 YEAR WATER LEVEL, UP TO AND INCLUDING 1 IN 100 YEAR EVENT PLUS 40% CLIMATE CHANGE INCREASE.

As per site levels DWG, Car Park is the low point. So any over land flows would be routed as shown. Car Park Surrounded by Boundary Walls to keep water on site & ACCs/Gullies to allow drainage once cleared.

ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITIES AND CCTV REPORT. EXISTING PUBLIC WATER SEWERS ARE TO BE ABOVE GROUND PROBED, ROUTED AND INTERNALLY SURVEYED WITH ALL INFORMATION PASSED TO CARLEY DAINES AND PARTNERS FOR REVIEW PRIOR TO COMMENCEMENT ON SITE

DESIGN NOTE
DUE TO GENERAL SITE LEVELS, PLOTS 11 & 12 ARE TOO LOW TO UTILISE PROPOSED S104 DRAINAGE SYSTEM, HENCE A PROPOSED SEPARATE SYSTEM CONNECTING DIRECTLY INTO EXISTING COMB SEWER.

NEW CONNECTION TO EXISTING PUBLIC SEWER VIA NEW MANHOLE ON EXISTING LINE, EXISTING IL TBC, PIPE GRADE TO SUIT. SUBJECT TO SECTION 106 APPLICATION. INITIAL PERMISSION IN PRINCIPAL ADVISED BY UU DEVELOPER SERVICES FOLLOWING PRE DEVELOPMENT ENQUIRY.

PROPOSAL SUBJECT TO SECTION 106 APPROVAL. UNITED UTILITIES PRE DEVELOPMENT ENQUIRY ENGINEER HAS AGREED TO PROPOSAL IN PRINCIPAL OF DISCHARGING BOTH PLOT 11 AND 12 FOUL AND SURFACE WATER AT A FREE FLOW, PROVIDING CONNECTION IS MADE TO EXISTING 375mmØ SEWER AS SHOWN.

DESIGN NOTE
FOR SEWERS TO BE ADOPTED BY UNITED UTILITIES, SYSTEM TO BE DESIGNED TO ADOPTABLE STANDARDS AND SUBMITTED FOR APPROVAL UNDER SECTION 104 AGREEMENT.

DESIGN NOTE
ALL EXISTING COVER, INVERT AND MANHOLE LOCATIONS TO BE ASCERTAINED BEFORE CONNECTION POINTS ARE FINALIZED. SITE ENGINEER TO REPORT BACK WITH DRAINAGE LEVELS.

DESIGN NOTE
EXACT RWP LOCATION AND FOUL POP UP POSITIONS TO BE CONFIRMED AT LATER STAGE. CONNECTION TO PROPOSED NEW DRAINAGE VIA JUNCTION CONNECTIONS DIRECT FROM OUTLET.

DESIGN NOTE
SECTION 106 APPLICATION TO BE IN PLACE WITH UNITED UTILITIES BEFORE CONNECTION IS MADE TO THE PUBLIC SEWER SYSTEM

DESIGN NOTE
POSSIBILITY OF UTILISING EXISTING MANHOLE AND CONNECTION TO SEWER UNDER RETROSPECTIVE S102 ADOPTION TO BE EXPLORED WITH UNITED UTILITIES. FAILURE TO BE ACCEPTED WOULD RESULT IN NEW APPARATUS TO BE CONSTRUCTION AND NEW CONNECTION TO PUBLIC SEWER.

DESIGN NOTE
EXACT RWP LOCATION AND FOUL POP UP POSITIONS TO BE CONFIRMED AT LATER STAGE. CONNECTION TO PROPOSED NEW DRAINAGE VIA JUNCTION CONNECTIONS DIRECT FROM OUTLET.

- DRAINAGE LEGEND:**
- SITE BOUNDARY
 - PROPOSED SW SEWER FOR ADOPTION
 - PROPOSED SW MANHOLE FOR ADOPTION
 - PROPOSED FW SEWER FOR ADOPTION
 - PROPOSED FW MANHOLE FOR ADOPTION
 - PROPOSED 3M EASEMENT TO S104 APPARATUS
 - EXISTING PUBLIC SEWER APPARATUS
 - PROPOSED PRIVATE PLOT SW DRAINAGE
 - PROPOSED PRIVATE PLOT FW DRAINAGE
 - PROPOSED PRIVATE PLOT COMBINED DRAINAGE

NOTES

0m 10m 20m

1:200 scale bar

SITE LOCATION
CHAIN ROAD,
BLACKLEY,
MANCHESTER.
M9 ORD.
EASTINGS: 386000;
NORTHINGS: 404140.

1. ALL DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H & "SEWERS FOR ADOPTION 6TH EDITION" SUPPLEMENT GUIDELINES AND STANDARD DETAILS.
2. ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO BS EN 285:1991 PART 1.
3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH BS EN 1916:2002. ALL MANHOLES AND CHAMBERS SHALL BE TO BS EN 1917:2002.
4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY BS 4602:2000 & BS EN 14011. STRUCTURED WALL UPVC PIPES TO COMPLY WITH BS 4356-51 (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAY BE USED TO BE 300mm.
5. ALL LEVELS RELATE TO TOPOGRAPHICAL SURVEY DATUM.
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
7. PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE 150mm DIAMETER AND UNLESS OTHERWISE STATED LAID TO THE INVERT SHOWING.
8. ALL INSPECTION CHAMBERS TO BE 450mm DIAMETER POLYPROPYLENE WITH A MAXIMUM DEPTH OF 1200mm FOR THE STANDARD UNIT & A MAXIMUM DEPTH OF 3000mm WHEN A 350mm REDUCING RING IS USED.
9. ALL PLOT DRAINAGE RUNS TO BE 100mm DIAMETER AT A NOMINAL FALL OF 1:80 UNLESS NOTED OTHERWISE.
10. ACCORDING EYES AT START OF EACH DRAINAGE RUN.
11. ALLOW FOR 5mm OF 'ACD' DRAINAGE CHANNEL PER PROPERTY AT HIGHWAY BOUNDARY.
12. SURFACE WATER FROM PLOT PARKING AREAS MUST NOT DISCHARGE ONTO THE HIGHWAY.
13. PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURTLAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS INDICATED ON DRAWINGS ARE CORRECT BEFORE THE WORKS ARE COMMENCED.
15. ALL CONNECTIONS TO ADOPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED, UNLESS SPECIFIED.
16. ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.2m COVER IN ROADS OR 0.8m COVER IN FIELDS SHALL HAVE CLASS 5 GRANULAR BED AND SURROUND.
17. ANY SEWER WITH LESS THAN 1.2m COVER IN ROADS OR 0.8m COVER IN FIELDS SHALL HAVE A MINIMUM OF 150mm ST4 CONCRETE SURROUND. FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXCELL OR SIMILAR APPROVED JOINT FILLER BRIDGES IN THE CONCRETE SURROUND AT EACH PIPE JOINT.
18. IT IS THE RESPONSIBILITY FOR THE CONTRACTOR TO CHECK ALL ON-SITE EXISTING GROUND LEVELS PRIOR TO COMMENCING AND IF THERE ARE ANY DISCREPANCIES THE CONTRACTOR MUST REPORT TO THE ENGINEER IMMEDIATELY.
19. CONTRACTOR TO CONFIRM THE COVER LEVEL, INVERT LEVEL & MANHOLE SIZE FOR THE EXISTING MANHOLE PRIOR TO CONTRACT START DATE.
20. ALL DRAINAGE SHOWN IN THIS DRAWING IS BASED ON ESTIMATES AND IS ALL SUBJECT TO A FURTHER DETAILED DESIGN STAGE AND IS SUBJECT TO CHANGE.

REV.	DATE	DESCRIPTION
E	11/03/22	PIPE LABELS ADDED TO PRIVATE NETWORK MATCHING MICRODRAINAGE. NRW ADDED.
D	25/02/22	GENERAL REVISIONS. COVER LEVELS REVISED IN ACCORDANCE WITH LATEST LEVELS.
C	26/01/22	PLOT 11 & 12 CONNECTION POINT REVISED FOLLOWING ADVICE FROM UU ENGINEER.
B	20/01/22	DESIGN UPDATED TO CONSTRUCTION ISSUE
A	22/09/21	LAYOUT UPDATED. DESIGN AMENDED TO SUIT

CLIENT

GREAT PLACES HOUSING GROUP
BOWKER SADLER ARCHITECTURE

Carley Daines and Partners Limited
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TITLE

CHAIN ROAD
BLACKLEY, MANCHESTER

PROPOSED DRAINAGE
CONSTRUCTION DRAWING
11/03/2022.

Drawn	AM	Checked	DM
Date	13/08/2021	Date	13/08/2021
Scale	1:200	@	A1
Drawing No.	21-B-12851-201		

SKETCH: 201 OVER LAND FLOOD ROUTING PLAN. In Event of Blockage.