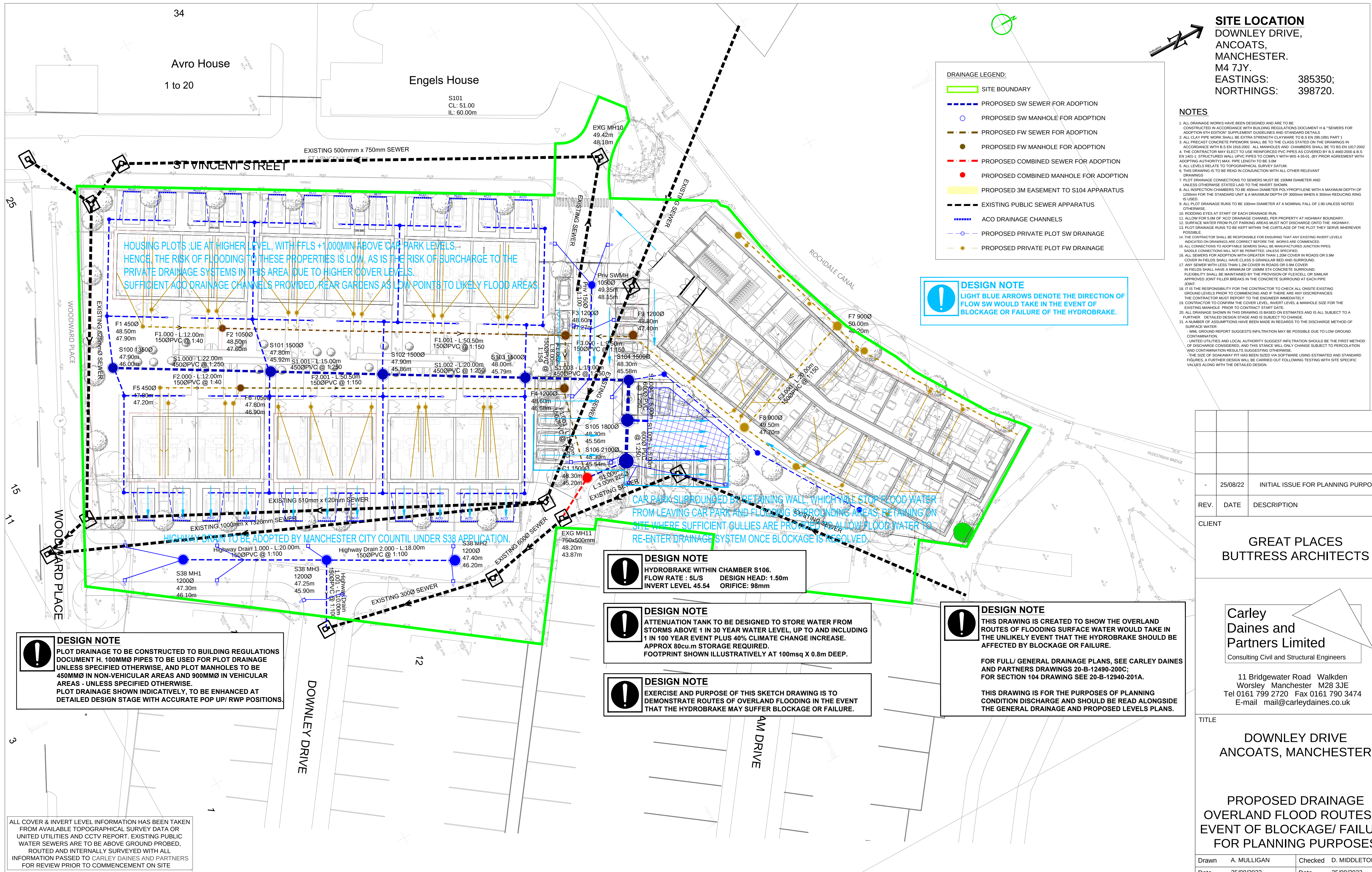




SITE LOCATION

DOWNLEY DRIVE,
ANCOATS,
MANCHESTER.
M4 7JY.
EASTINGS: 385350;
NORTHINGS: 398720.

NOTES

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 295:1991 PART 1.
3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH BS EN 1303:2002. ALL MANHOLES AND CHAMBERS SHALL BE TO BS EN 1303:2002.
4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY BS EN 469:2000 & BS EN 1401:1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS 4-35-01. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX. PIPE LENGTH TO BE 3.0M.
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 LAD TO THE INVERT SHOWN.
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. RODDING EYES AT START OF EACH DRAINAGE RUN.
11. ALLOW FOR 5.0M OF ACO 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 CURTLAGES 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 0.9M COVER IN FIELDS SHALL HAVE CLASS 5 GRANULAR BED AND SURROUND.
17. ANY SEWER WITH LESS THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE A MINIMUM OF 150MM STA CONCRETE SURROUND. FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXCELL OR SIMILAR APPROVED JOINT FILLER BREAKS 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 SUBJECT TO A FURTHER DETAILED DESIGN STAGE AND IS SUBJECT TO A FURTHER DETAILED DESIGN STAGE AND IS SUBJECT TO A FURTHER DETAILED DESIGN STAGE.
21. A NUMBER OF ASSUMPTIONS HAVE BEEN MADE IN REGARDS TO THE DISCHARGE METHOD OF SURFACE WATER.
22. VMS GROUND REPORT SUGGESTS INFILTRATION MAY BE POSSIBLE DUE TO LOW GROUND CONTAMINATION.
23. UNITED UTILITIES AND LOCAL AUTHORITY SUGGEST INFILTRATION SHOULD BE THE FIRST METHOD OF DISCHARGE CONSIDERED, AND THIS STANCE WILL ONLY CHANGE SUBJECT TO PERCOLATION AND CONTAMINATION RESULTS SUGGESTING OTHERWISE.
24. THE SIZE OF SOAKAWAY PIT HAS BEEN SIZED VIA SOFTWARE USING ESTIMATED AND STANDARD FIGURES. A FURTHER DESIGN WILL BE CARRIED OUT FOLLOWING TESTING WITH SITE SPECIFIC VALUES ALONG WITH THE DETAILED DESIGN.

DESIGN NOTE
LIGHT BLUE ARROWS DENOTE THE DIRECTION OF FLOW SW WOULD TAKE IN THE EVENT OF BLOCKAGE OR FAILURE OF THE HYDROBRAKE.

DESIGN NOTE
HYDROBRAKE WITHIN CHAMBER S106.
FLOW RATE : 5L/S DESIGN HEAD: 1.50m
INVERT LEVEL 45.54 ORIFICE: 98mm

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. APPROX 80cu.m STORAGE REQUIRED. FOOTPRINT SHOWN ILLUSTRATIVELY AT 100msq X 0.8m DEEP.

DESIGN NOTE
EXERCISE AND PURPOSE OF THIS SKETCH DRAWING IS TO DEMONSTRATE ROUTES OF OVERLAND FLOODING IN THE EVENT THAT THE HYDROBRAKE MAY SUFFER BLOCKAGE OR FAILURE.

DESIGN NOTE
THIS DRAWING IS CREATED TO SHOW THE OVERLAND ROUTES OF FLOODING SURFACE WATER WOULD TAKE IN THE UNLIKELY EVENT THAT THE HYDROBRAKE SHOULD BE AFFECTED BY BLOCKAGE OR FAILURE.

FOR FULL/ GENERAL DRAINAGE PLANS, SEE CARLEY DAINES AND PARTNERS DRAWINGS 20-B-12490-200C;
FOR SECTION 104 DRAWING SEE 20-B-12940-201A.

THIS DRAWING IS FOR THE PURPOSES OF PLANNING CONDITION DISCHARGE AND SHOULD BE READ ALONGSIDE THE GENERAL DRAINAGE AND PROPOSED LEVELS PLANS.

DESIGN NOTE
PLOT DRAINAGE TO BE CONSTRUCTED TO BUILDING REGULATIONS DOCUMENT H. 100MMØ PIPES TO BE USED FOR PLOT DRAINAGE UNLESS SPECIFIED OTHERWISE, AND PLOT MANHOLES TO BE 450MMØ IN NON-VEHICULAR AREAS AND 900MMØ IN VEHICULAR AREAS - UNLESS SPECIFIED OTHERWISE.
PLOT DRAINAGE SHOWN INDICATIVELY, TO BE ENHANCED AT DETAILED DESIGN STAGE WITH ACCURATE POP UP/ RWP POSITIONS.

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

REV.	DATE	DESCRIPTION
-	25/08/22	INITIAL ISSUE FOR PLANNING PURPOSES

CLIENT
**GREAT PLACES
BUTTRESS ARCHITECTS**

**Carley
Daines and
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Consulting Civil and Structural Engineers

11 Bridgewater Road Walkden
Worsley Manchester M28 3JE
Tel 0161 799 2720 Fax 0161 790 3474
E-mail mail@carleydaines.co.uk

TITLE
**DOWNLEY DRIVE
ANCOATS, MANCHESTER**

**PROPOSED DRAINAGE
OVERLAND FLOOD ROUTES IN
EVENT OF BLOCKAGE/ FAILURE
FOR PLANNING PURPOSES**

Drawn	A. MULLIGAN	Checked	D. MIDDLETON
Date	25/08/2022	Date	25/08/2022

Scale 1:250 @ A1

Drawing No. 20-B-12490-210 -