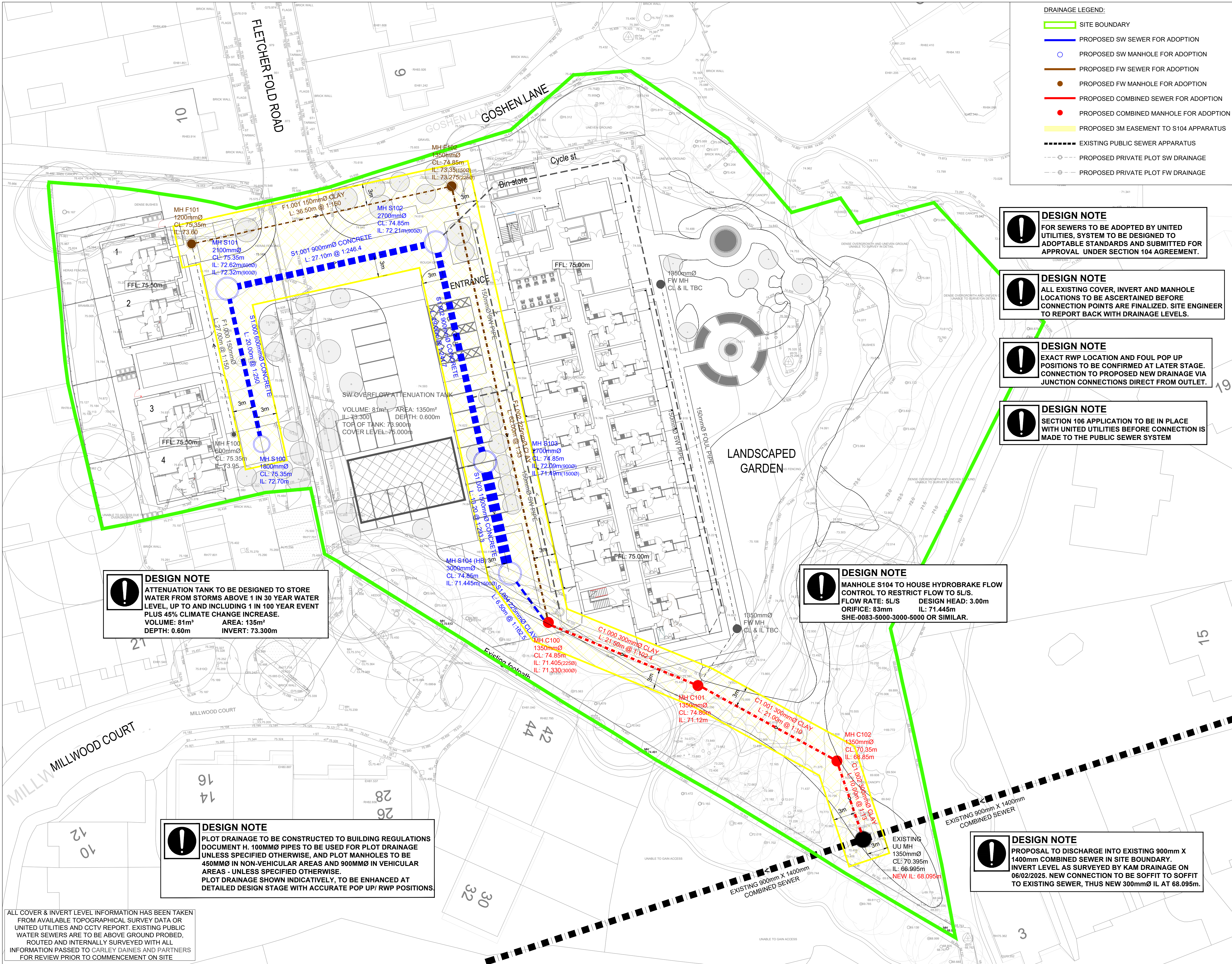




DRAINAGE LEGEND:

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

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
MANHOLE S104 TO HOUSE HYDROBRAKE FLOW CONTROL TO RESTRICT FLOW TO 5L/S.
FLOW RATE: 5L/S DESIGN HEAD: 3.00m
ORIFICE: 83mm IL: 71.445m
SHE-0083-5000-3000-5000 OR SIMILAR.

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 45% CLIMATE CHANGE INCREASE.
VOLUME: 81m³ AREA: 135m²
DEPTH: 0.60m INVERT: 73.300m

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

DESIGN NOTE
PROPOSAL TO DISCHARGE INTO EXISTING 900mm X 1400mm COMBINED SEWER IN SITE BOUNDARY.
INVERT LEVEL AS SURVEYED BY KAM DRAINAGE ON 06/02/2025. NEW CONNECTION TO BE SOFFIT TO SOFFIT TO EXISTING SEWER, THUS NEW 300mmØ IL AT 68.095m.

0m 12.5m 25m

1:250 scale bar

SITE LOCATION
FLETCHER FOLD ROAD,
BURY,
GREATER MANCHESTER.
BL9 9FY.
EASTINGS: 380600;
NORTHINGS: 408700.

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 4660:2000 & BS EN 14011. 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 LAID 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. RIDDING 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 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 1.20m 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 S14 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 ONSITE 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, PIPE SIZE & MANHOLE SIZE FOR THE EXISTING MANHOLE PRIOR TO CONTRACT START DATE

-	20/02/25	INITIAL ISSUE FOR SECTION 104 APPLICATION SUBMISSION.
REV.	DATE	DESCRIPTION

CLIENT
TYSON CONSTRUCTION
BOLTON AT HOME

Carley Daines and Partners Limited
Consulting Civil and Structural Engineers

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

TITLE
FLETCHER FOLD ROAD BURY
SECTION 104 DRAWINGS
ADOPTABLE DRAINAGE LAYOUT

Drawn	AM	Checked	DM
Date	20/02/2025	Date	20/02/2025
Scale	1:250	@	A1
Drawing No.	23-B-13947-201		-

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