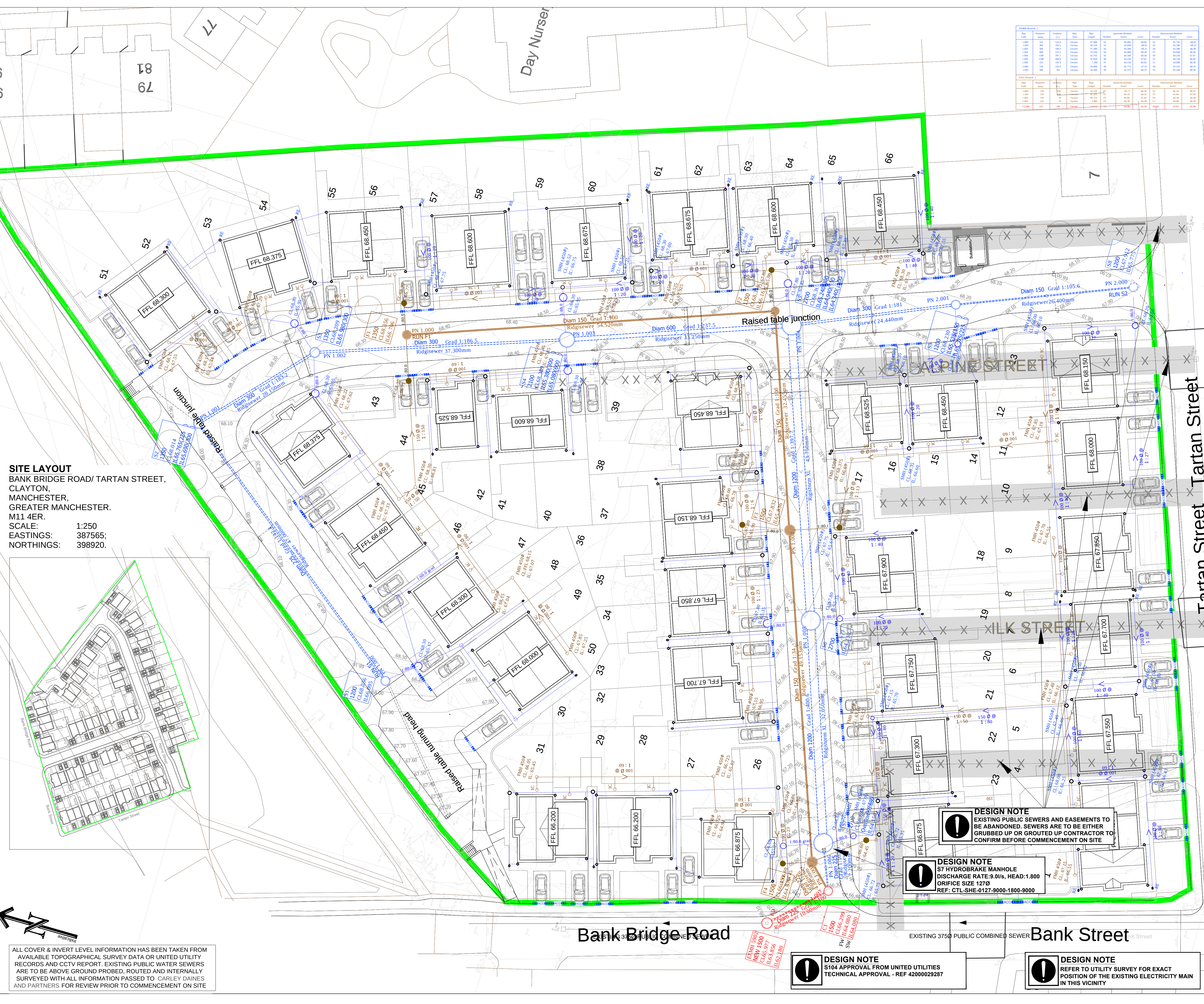
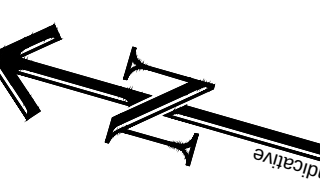




SITE LAYOUT
BANK BRIDGE ROAD/ TARTAN STREET,
CLAYTON,
MANCHESTER,
GREATER MANCHESTER.
M11 4ER.
SCALE: 1:250
EASTINGS: 387565;
NORTHINGS: 398920.



ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITY RECORDS 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

Sewer Network 1									
Line	From	To	Material	Size	Grade	Run	Start	End	Notes
1	100	101	Concrete	150	1:100	10.00	68.00	68.10	
2	101	102	Concrete	150	1:100	10.00	68.10	68.20	
3	102	103	Concrete	150	1:100	10.00	68.20	68.30	
4	103	104	Concrete	150	1:100	10.00	68.30	68.40	
5	104	105	Concrete	150	1:100	10.00	68.40	68.50	
6	105	106	Concrete	150	1:100	10.00	68.50	68.60	
7	106	107	Concrete	150	1:100	10.00	68.60	68.70	
8	107	108	Concrete	150	1:100	10.00	68.70	68.80	
9	108	109	Concrete	150	1:100	10.00	68.80	68.90	
10	109	110	Concrete	150	1:100	10.00	68.90	69.00	

Sewer Network 2									
Line	From	To	Material	Size	Grade	Run	Start	End	Notes
11	110	111	Concrete	150	1:100	10.00	69.00	69.10	
12	111	112	Concrete	150	1:100	10.00	69.10	69.20	
13	112	113	Concrete	150	1:100	10.00	69.20	69.30	
14	113	114	Concrete	150	1:100	10.00	69.30	69.40	
15	114	115	Concrete	150	1:100	10.00	69.40	69.50	
16	115	116	Concrete	150	1:100	10.00	69.50	69.60	
17	116	117	Concrete	150	1:100	10.00	69.60	69.70	
18	117	118	Concrete	150	1:100	10.00	69.70	69.80	
19	118	119	Concrete	150	1:100	10.00	69.80	69.90	
20	119	120	Concrete	150	1:100	10.00	69.90	70.00	

DO NOT SCALE OFF THIS DRAWING
IF IN DOUBT - ASK

NOTES

- ALL ADAPTABLE DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERS FOR ADOPTION 4TH EDITION" AND U.I. SUPPLEMENT GUIDELINES AND STANDARD DETAILS
- ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO B.S EN 255:1991 PART 1
- ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH B.S EN 255:2002. ALSO, ALL MANHOLES AND CHAMBERS SHALL BE TO B.S EN 1917:2002
- THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY B.S 6892:2004 & B.S EN 14011. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WS 4-35-01 (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX. PIPE LENGTH TO BE 12M
- ALL LEVELS RELATE TO TOPOGRAPHICAL SURVEY DATUM
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
- PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE 150MM DIAMETER AND UNLESS OTHERWISE STATED LAID TO THE INVERT SHOWN
- 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
- ALL PLOT DRAINAGE RUNS TO BE 100mm DIAMETER AT A NOMINAL FALL OF 1:70 UNLESS NOTED OTHERWISE
- RODDING EYES AT START OF EACH DRAINAGE RUN
- ALLOW FOR 50M OF ACO DRAINAGE CHANNEL PER PROPERTY AT HIGHWAY BOUNDARY
- SURFACE WATER FROM PLOT PARKING AREAS MUST NOT DISCHARGE ONTO THE HIGHWAY
- PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURTILAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS INDICATED ON DRAWINGS ARE CORRECT BEFORE THE WORKS ARE COMMENCED
- ALL CONNECTIONS TO ADAPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED UNLESS SPECIFIED
- ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE CLASS S GRANULAR BED AND SURROUND
- ANY SEWER FOR ADOPTION 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
- 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
- CONTRACTOR TO CONFIRM THE COVER LEVEL, INVERT LEVEL & MANHOLE SIZE FOR THE EXISTING MANHOLE 500 PRIOR TO CONTRACT START DATE
- THERE ARE A NUMBER OF EXISTING SEWERS & MANHOLES ON THE SITE, WHICH MUST BE ABANDONED BEFORE THE FINAL DRAINAGE DESIGN. CONTRACTOR TO PROVIDE ALL NECESSARY INFORMATION IF ANY CHANGES ARE REQUIRED TO THE DRAINAGE LAYOUT

KEY

- Foul water sewer
- Storm water sewer
- Combined sewer
- Back drop manhole
- Existing UU Storm water sewer
- Existing UU Foul water sewer
- Existing UU Storm water sewer to be abandoned
- Existing UU Foul water sewer to be abandoned
- Gully (150mm connection)
- Existing Sewer easement
- SW Rodding Eye CL-FFL-0.15 / IL-CL-0.45
- FW Inspection Chamber CL-FFL-0.15 / IL-CL-0.60
- At The Start Of Every Run For Property

REV.	DATE	DESCRIPTION
H	05.08.21	ATTENUATION REMOVED FOLLOWING ANALYSIS
G	09.07.20	ISSUED FOR CONSTRUCTION
F	11.06.20	AMENDED TOS104 ENGINEER COMMENTS.
E	28.05.20	AMENDED TOS104 ENGINEER COMMENTS.
D	11.05.20	PRIVATE DRAINAGE ADDED WITH ACO DRAINS
C	20.04.20	DRAINAGE SYSTEM REVERTED TO ORIGINAL, WITH LEVEL & LENGTH CHANGES, FOR RESUBMISSION.
B	17.03.20	RD'S 2, 3 AND 3TH LEVELS AND CAMBER AMENDED
A	22.11.19	ISSUED FOR S104 APPROVAL

CLIENT

CASEY GROUP

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

TITLE

**NEW DEVELOPMENT
BANK BRIDGE ROAD**

DRAINAGE PLAN

Drawn	A.Mulligan	Checked	D.Middleton
Date	Feb 2020	Date	Feb 2020

Scale 1:250 @ A1

Drawing No.	19.B.12068/20	H
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DESIGN NOTE
EXISTING PUBLIC SEWERS AND EASEMENTS TO BE ABANDONED. SEWERS ARE TO BE EITHER GRUBBED UP OR GROUTED UP CONTRACTOR TO CONFIRM BEFORE COMMENCEMENT ON SITE

DESIGN NOTE
S7 HYDROBRAKE MANHOLE
DISCHARGE RATE:9.0l/s, HEAD:1.800
ORIFICE SIZE 1270
REF: CTL-SHE-0127-9000-1800-9000

DESIGN NOTE
S104 APPROVAL FROM UNITED UTILITIES
TECHNICAL APPROVAL - REF 42000029287

DESIGN NOTE
REFER TO UTILITY SURVEY FOR EXACT POSITION OF THE EXISTING ELECTRICITY MAIN IN THIS VICINITY