

1. SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
2. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
3. THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTEABLE HIGHWAYS SHALL BE 150mm
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN BY REGRADERS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND-OUT AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CO REGULATIONS AT ALL TIMES
5. THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 1.0m FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES
6. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES
7. ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
8. ALL MATERIALS TO BEAR THE RELEVANT BS & KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT. THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
9. ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY A L1, MHC OR THE NETWORK OPERATOR AS APPLICABLE.
10. WHERE "ULTRA RUP" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTEABLE DRAINAGE THEY SHALL BE SET HAND IN HAND IN ACCORDANCE WITH THE SPECIFICATION & DRAINAGE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
11. A CLASS 8 BED AND SURROUND MUST BE USED FOR SUCH SPACES. TRENCH-BACKFILL IN HIGHWAYS TO WITHIN 1m OF HIGHWAY SHALL, AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRITULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL 4.34.
12. SLAB LEVELS SHALL NOT BE VARYED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
13. ALL GULLY CONNECTIONS TO BE 150mm WITFRED CLAY UNLESS NOTED OTHERWISE
14. ALL INTERNAL MANHOLE COVERS TO BE RECESSED TO ACCEPT FANS AS DETAILED BY ARCHITECT
15. THE LOCATION AND ORIENTATION OF ALL RECESSED COVERS IN BLOCK PAVING AREAS TO BE COORDINATED WITH BLOCK PAVING PATTERNS
16. SLOW REST FFELS TO BE USED IN ALL LOCATIONS MADE UP FROM 2m+ 45 DEG BENDS (750mm TO INVERT FROM FF)
17. MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES
18. ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION
19. ALL POP-UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY ARCHITECT
20. ALL DISCHARGE RATES TO BE CONFIRMED BY MEAS DESIGNER
21. ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT
22. STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLES AND PIPES
23. EXISTING SEWER DEPTHS HAVE BEEN APPROXIMATED FROM LIMITED INFORMATION. NEW CONNECTIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS
24. LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPE AREAS
25. FOUL NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING MEAS DESIGNER

- ALL SURFACE / FLOOR WATER CONNECTIONS ARE TO HAVE ROADABLE ACCESS FROM ABOVE GROUND
- ALL POP-UP AND RWP SETTING OUT IS TO BE PROVIDED BY THE ARCHITECT
- INTERNAL FOUL MANHOLES WILL REQUIRE RECESSED, DOUBLE SEALED & LOCKABLE MANHOLE COVERS
- FLOOR GULLIES LOCATIONS AND ASSOCIATED DRAINAGE FOR SHOWERS TO BE CONFIRMED
- FINAL POP-UP LOCATIONS SUBJECT TO ARCHITECT / MSE CO-ORDINATION
- INTERNAL MANHOLE LOCATIONS AND DETAILED SETTING OUT OF COVER LOCATIONS TO BE CO-ORDINATED WITH LAYOUT LOADERS AND TO ARCHITECT/ARCHITECT
- REFER TO MSE INFORMATION FOR THE RISING MAIN ROUTE AND DETAILS FOR EACH PUMPING PUMP

	PHASE 1 MANHOLE
	PHASE 1 PPIC
	PHASE 1 DRAINAGE
	PHASE 1 ACO DRAIN
	PHASE 1 THRESHOLD DRAIN
	EXISTING UNITED UTILITIES COMBINED WATER SEWERS TO
	EXISTING TFGM TRACK DRAINAGE TO REMAIN
	PHASE 2 SITE BOUNDARY
	PROPOSED TFGM PROPOSED FLOOD DRAINAGE DIVERSION
	PROPOSED TFGM TRACK DRAINAGE DIVERSION MANHOLE
	VICTORIA STATION DRAINAGE DIVERSION
	PROPOSED FOUL WATER DRAINAGE
	PROPOSED FOUL PPIC
	PROPOSED FOUL FLOOR GULLY
	PROPOSED FOUL ACO DRAIN
	PROPOSED FOUL WATER PUMP STATION
	PROPOSED FOUL WATER MANHOLE

P06	06/06/2020	RIBA STAGE 4		JP	JP	DJS
P06	30/06/2020	DRAWING GENERALLY UPDATED		JP	JP	DJS
P04	14/04/2020	UPDATE TO SUIT LATEST INTERNAL LAYOUT		JJR	JRS	DJS
P03	25/11/2022	RIBA STAGE 3 (SPATIAL COORDINATION)		JJR	JRS	DJS
P02	27/05/2022	PLANNING ISSUE - PRELIMINARY		JRS	JRS	DJS
P01	01/04/2022	STAGE 2 ISSUE - PRELIMINARY		JJR	JRS	DJS
REV	DATE	DESCRIPTION		BY	CHK	APP

PRELIMINARY

MORGAN CAPITAL

PIERCY & COMPANY

NEW VICTORIA OFFICE
MANCHESTER

BELOW GROUND DRAINAGE
OUTLINE DRAINAGE STRATEGY

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No.	REV.
S2	221-132	NV - AJP - XX - XX - DR - C - 00001							P06
SCALE @ A0:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:				
1:100	JJR	JJR	JRS	DJS	APR 2022				

