

PRELIMINARY SUBJECT TO  
CONFIRMATION OF LANDSCAPE  
ARCHITECTS PROPOSED SITE LEVELS

NO FLOODING FROM DRAINAGE SYSTEMS FOR ALL RAINFALL EVENTS  
UP TO AND INCLUDING THE 1 IN 100 YEAR +40% CLIMATE CHANGE  
EVENT. THEREFORE, EXCEEDANCE FLOW PATHS ONLY USED DURING  
EXCEPTIONAL CIRCUMSTANCES (RAINFALL EVENTS IN EXCEEDANCE  
OF THE 1 IN 100 YEAR +40% CLIMATE CHANGE EVENT)



NON-RETURN VALVE USED WITHIN PROPOSED  
SURFACE WATER DRAINAGE SYSTEM TO  
PREVENT SURCHARGED FLOWS FROM  
ENTERING PROPOSED DRAINAGE WITHIN  
UNDERCROFT AREA OF BLOCK D.

- IMPORTANT NOTES**
- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
  - ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
  - THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150mm.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND BRANDED CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE NOTES SHALL INCLUDE FOR HAND OUT AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES.
  - THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 150mm FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 0.5m FROM KERB LINES.
  - EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES.
  - ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES.
  - ALL MATERIALS TO BEAR THE RELEVANT U.S. KITE MARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS.
  - 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 C.A. H&C OR THE NETWORK OPERATOR AS APPLICABLE.
  - WHERE 'ULTRA RIB' UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
  - A CLASS 9 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL 4.54.
  - SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE.
  - DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H: 110mm U.P.V.C. PIPES LAD TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.
- | HEAD RUN  | FALL    | S.W.     |
|-----------|---------|----------|
| ELSEWHERE | 1 IN 60 | 1 IN 60  |
|           | 1 IN 80 | 1 IN 100 |
- ALL GULLY CONNECTIONS TO BE 150mm VTRIFIED CLAY UNLESS NOTED OTHERWISE.
  - ALL MANHOLE COVERS TO BE RECESSED TO ACCEPT FINISH AS DETAILED BY LANDSCAPE ARCHITECT.
  - SLOW REST BENDS TO BE USED IN ALL LOCATIONS MADE UP FROM 2m x 45 DEG BENDS (800mm TO INVERT FROM FFL).
  - MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES.
  - ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION.
  - ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY OTHERS.
  - ALL DISCHARGE RATES TO BE CONFIRMED BY M&E DESIGNER.
  - ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT.
  - STORAGE HAS BEEN PROVIDED IN A CELLULAR STORAGE TANK AND UP-SIZED MANHOLES AND PIPES.
  - EXISTING SEWER DEPTHS HAVE BEEN APPROXIMATED FROM LIMITED INFORMATION. NEW CONNECTIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS.
  - LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS.
  - FOUL NETWORK TO BE CONFIRMED FOLLOWING CONFIRMATION OF BRANCH CONNECTION POINTS FROM BUILDING M&E DESIGNER.
  - CCTV SURVEY OF EXISTING SITE DRAINAGE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORKS STARTING ON SITE.

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| REV | DATE       | DESCRIPTION                       | JRS | DJS | DJS |
| 1   | 15.07.2020 | REVISION 1 ISSUE DEVELOPED DESIGN |     |     |     |
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| STATUS:     | PRELIMINARY                                          |
| CLIENT:     | DOWNING                                              |
| ARCHITECT:  | SIMPSON HAUGH & PARTNERS                             |
| PROJECT:    | FIRST STREET SOUTH MANCHESTER                        |
| TITLE:      | BELOW GROUND DRAINAGE PROPOSED EXCEEDANCE FLOW PATHS |
| STATUS:     | S2                                                   |
| PROJECT No: | 219-215                                              |
| PROJECT:    | FSS - AJP - XX - 00 - DR - C - 0011                  |
| DESIGNED:   | JRS                                                  |
| DRAWN:      | JRS                                                  |
| CHECKED:    | DJS                                                  |
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| SCALE:      | 1:200                                                |
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| DRAWN:      | JRS                                                  |
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