

SECTION 104 & 38 NOTES

1. All adoptable drainage works have been designed and are to be constructed in accordance with the following:-
 1. All city pipe work shall be Extra Strength Clayware to BS EN 245:1991 Part 1
 2. All manholes and chambers shall be to the sizes stated on the drawings in accordance with BS EN 1916:2002
 3. All manholes and chambers shall be to BS EN 1917:2002
 4. The Contractor may need to use reinforced PVC pipes as specified in the drawings in accordance with BS EN 1916:2002 up to and including 300mm (9) prior agreement with adopting authority. MAX. PIPE LENGTH TO BE 30m
 5. This drawing is to be used in conjunction with all other relevant drawings.
 6. House drainage connections to sewers must be 150mm Ø
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 8. Lateral gully on drop and chambers are according to the drawings
 9. House drainage runs to be kept within the curbside of the plot
 10. Invert levels indicated on drawings are correct before work commences.
 11. The Contractor should satisfy himself as to the position and depth of any existing Stationary Underdrains point which could effect the works
 12. Road surface levels shall be 150mm Ø connecting either directly to manholes shown, or to sewer runs using pre-formed junctions.
 13. Junction pipes to establish sewers shall be by manufactured
 14. All sewers for adoption with greater than 1.20 metres cover in roads or 0.3m metres cover in fields shall have Class S granular bed
 15. Any sewer for adoption with less than 1.2 metres cover in roads or 0.3 metres cover in fields shall have a minimum of 150mm S74 concrete surround. Flexibly shall be maintained by the provision of a precast concrete surround joint. All drains in the connected surround of each pipe joint

SITE TEAMS INSTALLING STRUCTURAL WALL PLASTIC COURSE AND TO HAVE A VALID CERTIFICATE FROM THE BPF PLASTIC PIPE GROUP STRUCTURAL WALL UPVC PIPES ARE TO BE Laid IN 3m LENGTHS OUTSIDE OF NEW SEWERS TO BE LOCATED 1.0m MINIMUM FROM KERBLINES OUTSIDE OF MANHOLE CHAMBERS TO BE LOCATED 0.5m MINIMUM FROM KERBLINES

ALL PIPES TO HAVE CLASS "S" BED AND SURROUND UNLESS SHOWN OTHERWISE ALL CONCRETE PIPES TO BE CLASS 20 VITRIFIED CLAY ALL UPVC PIPES TO COMPLY WITH BS 4680:2000 & BS EN 1401-1 STRUCTURAL WALL PLASTIC PIPES TO COMPLY WITH BS 4-38-01 MAX. PIPE LENGTH TO BE 30m

FOUNDATIONS TO BE DESIGNED AND CONSTRUCTED TO THE DEPTH OF ADJACENT SEWERS AND DRAINS IN ACCORDANCE WITH SFA 7TH EDITION PART B

CONTRACTOR TO BE AWARE OF AND TAKE ACCOUNT OF ANY EXISTING STRUCTURES, TREES, EMBANKMENTS OR OTHER FEATURES DOES NOT OCCUR AS A RESULT OF ANY EXCAVATIONS WORKS SHOWN ON THIS DRAWING IF CONTRACTOR IS UNSURE ABOUT ANY ASPECT OF THE ABOVE HE SHOULD SEEK ADVICE BEFORE COMMENCING EXCAVATION WORK.

ALL EXISTING SERVICES TO BE LOCATED AT COMMENCEMENT IN ACCORDANCE WITH THE DRAWING AND PROTECTED ACCORDINGLY DURING THE WORKS

ALL EXISTING MANHOLE INVERT LEVELS ARE TO BE LOCATED AND SURVEYED PRIOR TO START ON SITE TO ENSURE THAT THEY ARE CORRECT AND ALSO TO ENSURE THAT LEVEL CLASHES ARE CORRECT ANY DISCREPANCY TO BE REPORTED TO REFA PRIOR TO START TO ENABLE ANY CHANGES TO BE MADE TO DESIGN THAT PROVE NECESSARY

ALL DRAINOUT CONNECTIONS FROM MAIN SEWER TO BE 150mm Ø UNLESS INDICATED OTHERWISE ALL STORAGE MANHOLES ON THE TANK SEWER MUST BE 150mm Ø SURROUNDED AS THEY ARE WATER RETAINING.

ALL ROAD GULLY CONNECTIONS TO BE 150mm Ø THE OFF SITE SEWER CONNECTIONS HAVE BEEN DESIGNED TO BE IN WITH THE EXISTING SEWERS AND WHIST IT IS ANTICIPATED NO CLASHES WITH EXISTING SERVICES WILL OCCUR IN DEPTHS OF EXISTING SERVICES THIS CANNOT BE GUARANTEED.

REFA WOULD ADVISE THE CLIENT TO EMPLOY A SURVEY EXPERIENCED COMPANY TO UNDERTAKE A SURVEY ALONG THE ROUTE OF THE EXISTENCE AND OF ANY POTENTIAL CLASHES TO ASCERTAIN IF DESIGN CHANGES CAN BE MADE.

DUE TO THE NEED FOR OFF SITE SEWER WORKS IT IS STRONGLY ADVISED THAT THESE ARE CONSTRUCTED PRIOR TO ANY WORKS ON SITE TO ALLOW DESIGN CHANGES ON SITE TO BE MADE IN THE DESIGN OF THE OFF SITE DESIGN REQUIRE REVISION. THE OFF SITE DESIGN REFA WILL NOT BE HELD RESPONSIBLE FOR ANY REVISIONS WORKS IF THIS PROCEDURE IS NOT FOLLOWED

CONTRACTOR/CIENT SHOULD NOTE THE EXISTENCE OF EXISTING BURIED PLANT AND SERVICES AND THE CONTRACTOR MUST UNDERTAKE RISK ASSESSMENT AND PROVIDE METHOD STATEMENT FOR WORKING IN THIS AREAS IN ACCORDANCE WITH THE POWER OF THE PRINCIPLE DESIGNER CONTRACTOR TO ALLOW FOR REBUILDING EXISTING MANHOLE TO CURRENT STANDARDS IF CONNECTION CANNOT BE MADE IN ACCORDANCE WITH UNDERGROUNDS GUIDELINES TO CATER FOR ANY DEVIATIONS IN THE AS CONSTRUCTED ROAD / FOOTPATH LEVELS IN RELATION TO THE DESIGN LEVELS. THE CONTRACTOR MUST BE AWARE THAT ANY WORK MUST BE CHECKED ON SITE BY THE SITE AGENT OR ENGINEER IN RELATION TO AS BUILT ROAD LEVELS TO ENSURE COMPLIANCE WITH PART M OF THE BUILDING REGULATIONS

