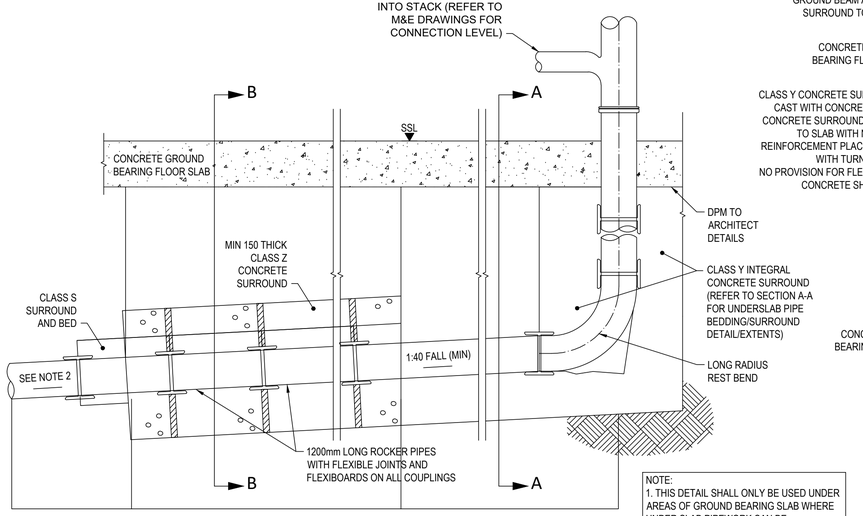
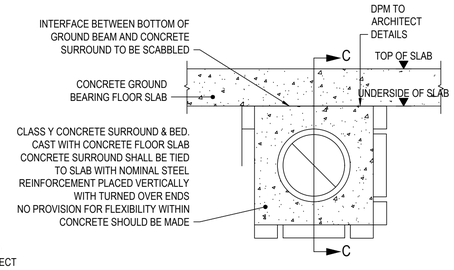


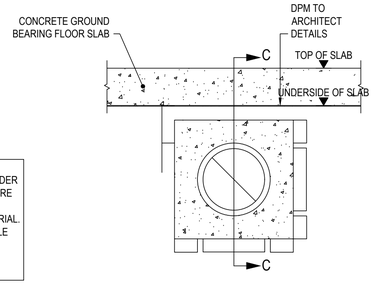
NOTE:
1. THIS DETAIL SHALL ONLY BE USED UNDER AREAS OF GROUND BEARING SLAB WHERE UNDER SLAB PIPEWORK CAN BE SUPPORTED BY UNDER SLAB FILL MATERIAL.
2. CONNECTION INTO INTERNAL MANHOLE OR MAIN UNDER SLAB RUN OR EXIT THROUGH FOUNDATION EDGE DETAIL (REFER TO DRAINAGE PLAN)

CROSS-SECTION C-C



NOTE:
1. WHERE SOFFIT OF PIPE IS WITHIN 300mm OF UNDERSIDE OF CONCRETE FLOOR SLAB, THE PIPE SHALL BE SURROUNDED AND BEDDED INTEGRAL WITH THE REINFORCED GROUND SLAB (REFER TO STRUCTURAL DRAWINGS FOR DETAILS)
2. ROCKER PIPE DETAIL TO BE USED AS PIPE LEAVES CONCRETE SURROUND CAST WITH CONCRETE FLOOR SLAB (I.E 150mm FROM EDGE OF CONCRETE STRUCTURE TO FIRST FLEXIBLE COUPLING, 600mm LONG ROCKER PIPE WITH FLEXIBLE COUPLINGS AND COMPRESSIBLE BOARDS ON EACH COUPLING IF PIPE IS TO HAVE CLASS Z SURROUND AND BEDDING.

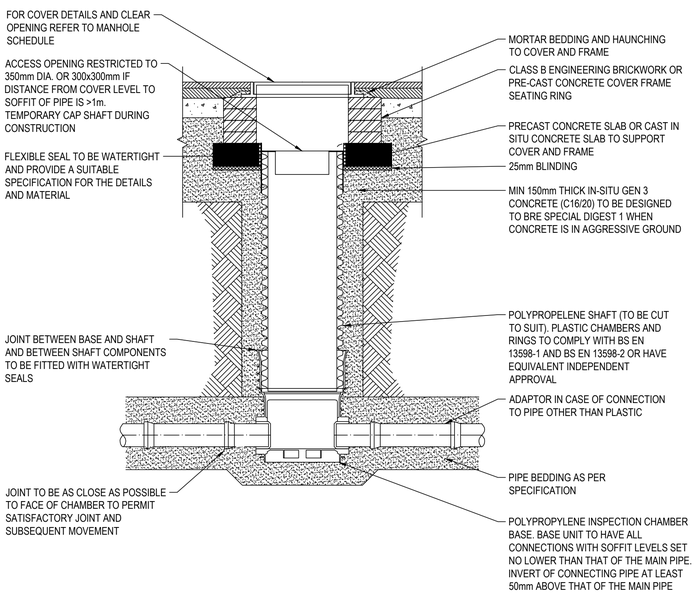
SECTION A-A
WHERE DISTANCE BETWEEN PIPE SOFFIT AND UNDERSIDE OF FLOOR SLAB/GROUND BEAM IS LESS THAN 300mm



NOTE:
1. WHERE SOFFIT OF PIPE IS BETWEEN 300 AND 600mm FROM UNDERSIDE OF CONCRETE FLOOR SLAB, THE PIPE SHALL BE SURROUNDED AND BEDDED IN ST4 CONCRETE (AS CLASS Z, DRAIN) WITH FLEXIBLE COUPLINGS AND FLEXI-BOARDS USED ON EACH JOINT. ROCKER PIPE DETAIL TO BE USED AS PIPE LEAVE CONCRETE SURROUND AND BED
2. WHERE THIS DISTANCE EXCEEDS 600mm THE PIPE SHALL BE SURROUNDED AND BEDDED IN GRANULAR MATERIAL

SECTION B-B
WHERE DISTANCE BETWEEN PIPE SOFFIT AND UNDERSIDE OF FLOOR SLAB/GROUND BEAM IS GREATER THAN 300mm

TYPICAL BEDDING DETAILS FOR PIPEWORK UNDER STRUCTURAL SLAB
1:20



INSPECTION CHAMBER DETAIL - TYPE D
DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE UP TO 3.0m
FLEXIBLE MATERIAL CONSTRUCTION
1:20

DRAINAGE WORKS

1. Existing manhole positions, invert levels and pipe sizes are to be confirmed on site by the contractor prior to commencement of work on site and be reported to the Engineer.
2. All drains are to be laid to a constant gradient between manhole chambers.
3. All pipework to be laid soffit to soffit.
4. All pipes up to 225mm dia to be Vitrified Clay (super strength), and pre-cast concrete pipes for diameters greater than 225mm.
5. The position of new sewers around buildings is diagrammatic only. Sewers should be located within walkways to avoid tree roots.
6. All pipes entering or leaving a manhole or structure to be constructed with flexible joints. Refer to Standard Detail Drawings for requirements.
7. Where drain pipes pass through mass concrete foundations, the pipe is to be sleeved, surrounded by polystyrene, and fitted with rocker pipes either side of the foundation (see Structural Engineer's drawings).
8. Pipes below ground slabs to be fully encased in concrete up to the underside of the ground slab where the depth to the pipe soffit is 600mm or less (see standard details).
9. In the areas of Public Realm, unless noted otherwise all manhole covers are to be recessed type to take surface finishes (any jointing / pattern to be continuous across the manhole cover).
10. The drainage shall be installed and tested strictly in accordance with the manufacturers printed instructions, BS 8000, BS 8301 and Local Authority byelaws.

Private Drainage;

13. Where specified or approved by the Engineer, private drainage may be UPVC to BS 4660 and BS EN 1401-1.
14. The position of Rainwater and Foul Water drain points (RWPs/SVPs) are shown indicatively. Refer to the Architect's or M&E Engineers drawings for detailed setting out.
15. The size of the above ground rainwater downpipes and Foul Water drain points (RWPs/SVPs) are specified by the relevant designer. See the Architectural or third party design plans as appropriate.
16. SVPs (by others) to incorporate an access point on vent above ground level.
17. All private drainage works to comply with Approved Document 'H' of the Building Regulations.
18. All drainage to be 100Ø, including connections unless noted otherwise.

Rev	Date	Description	By	Chk
T01	04.09.23	ISSUED FOR TENDER	ML	PB

Amendments

Project
ROCHDALE COLLEGE

Title
DRAINAGE DETAILS
SHEET 2

Client
ROCHDALE COLLEGE

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Work Stage	STAGE 4 Technical Design — RIBA
Suitability	INFORMATION — S2
Designed By	PB
Director	PK
Waterman Ref	STR17591
Drawn By	ML
Date	SEP 2023
Scales @ A1	AS NOTED

Project | Originator | Functional | Spatial | Form | Discipline | Number: 17591-WSL-01-XX-DR-S-92006
Revision: T01

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