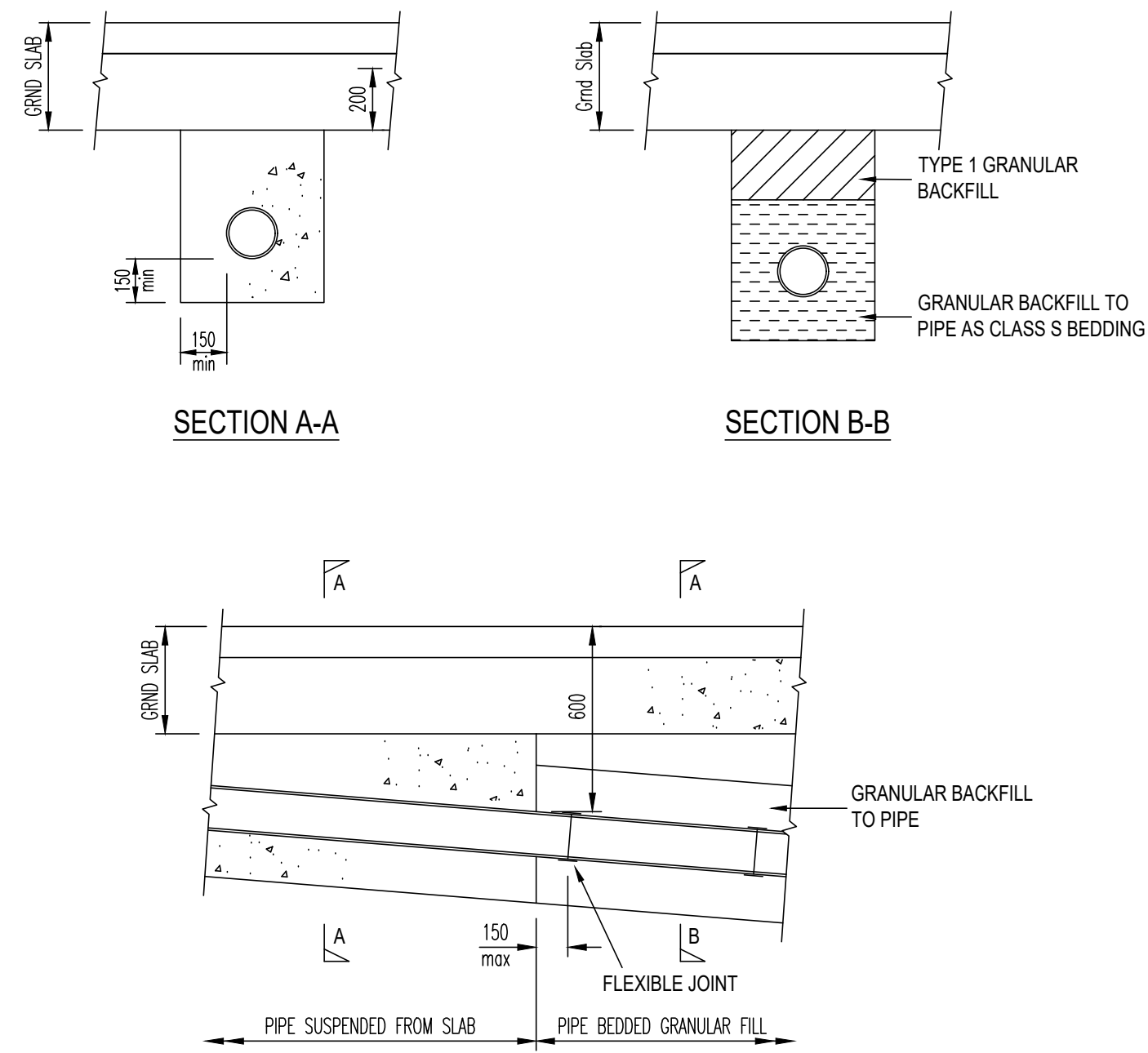
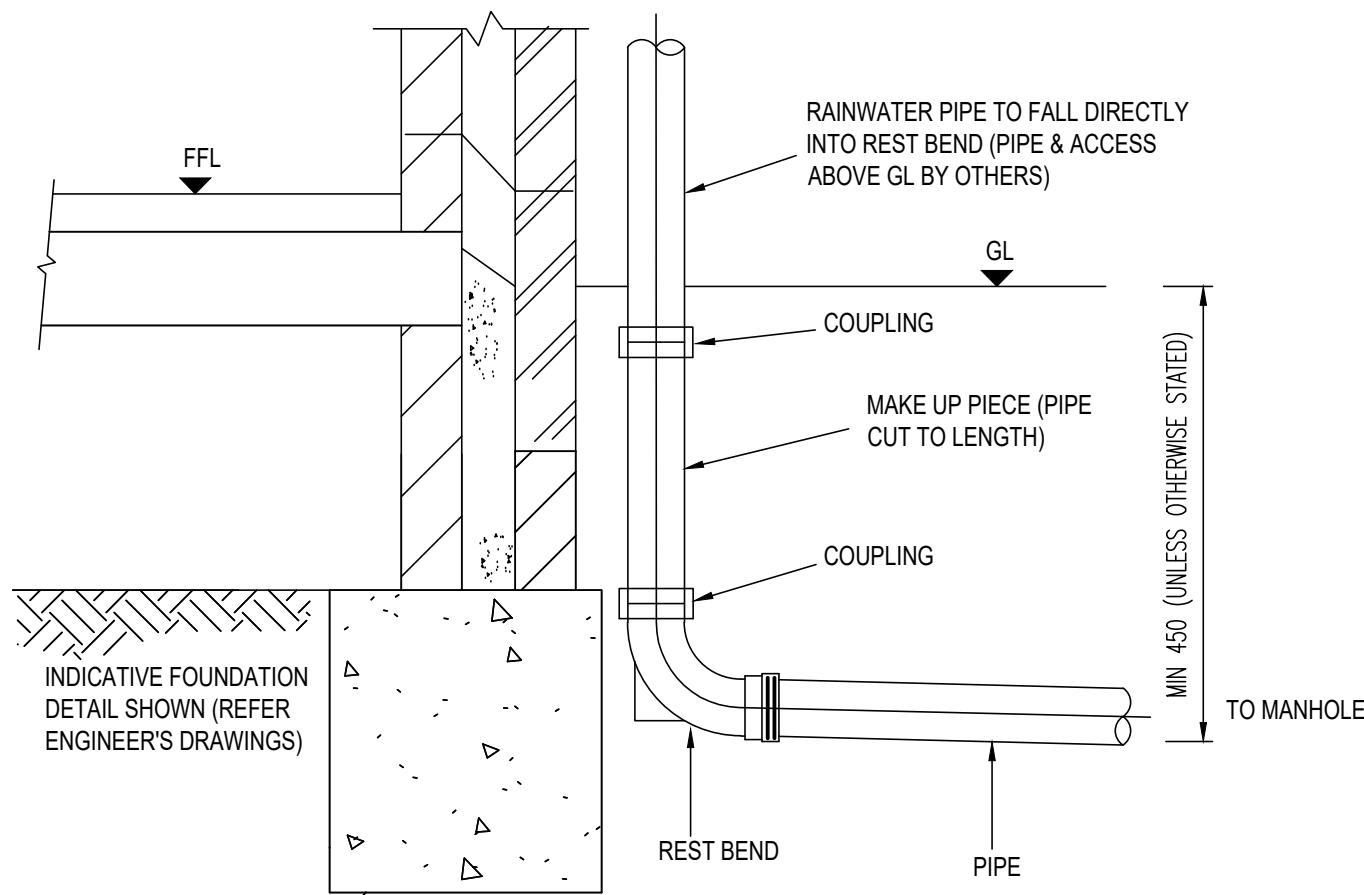
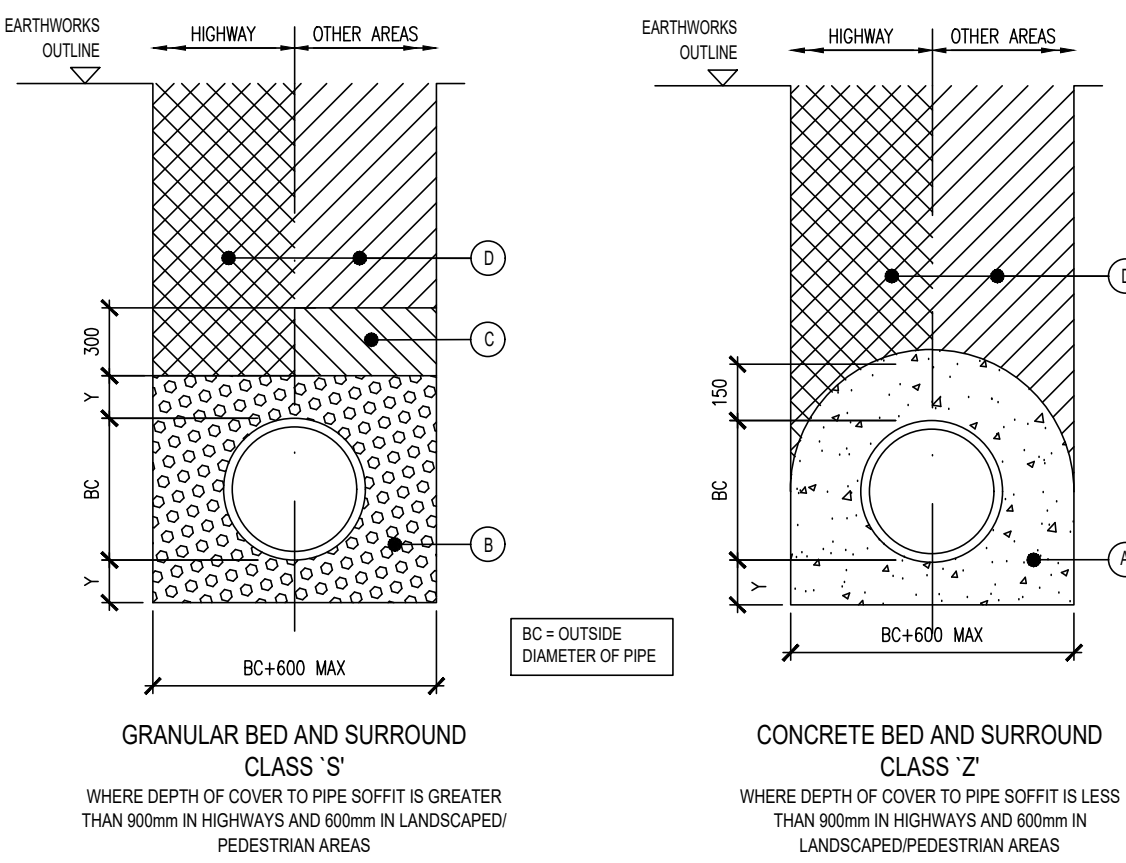




PIPE BEDDING DETAILS - DRAINS UNDER BUILDINGS
(1:20)



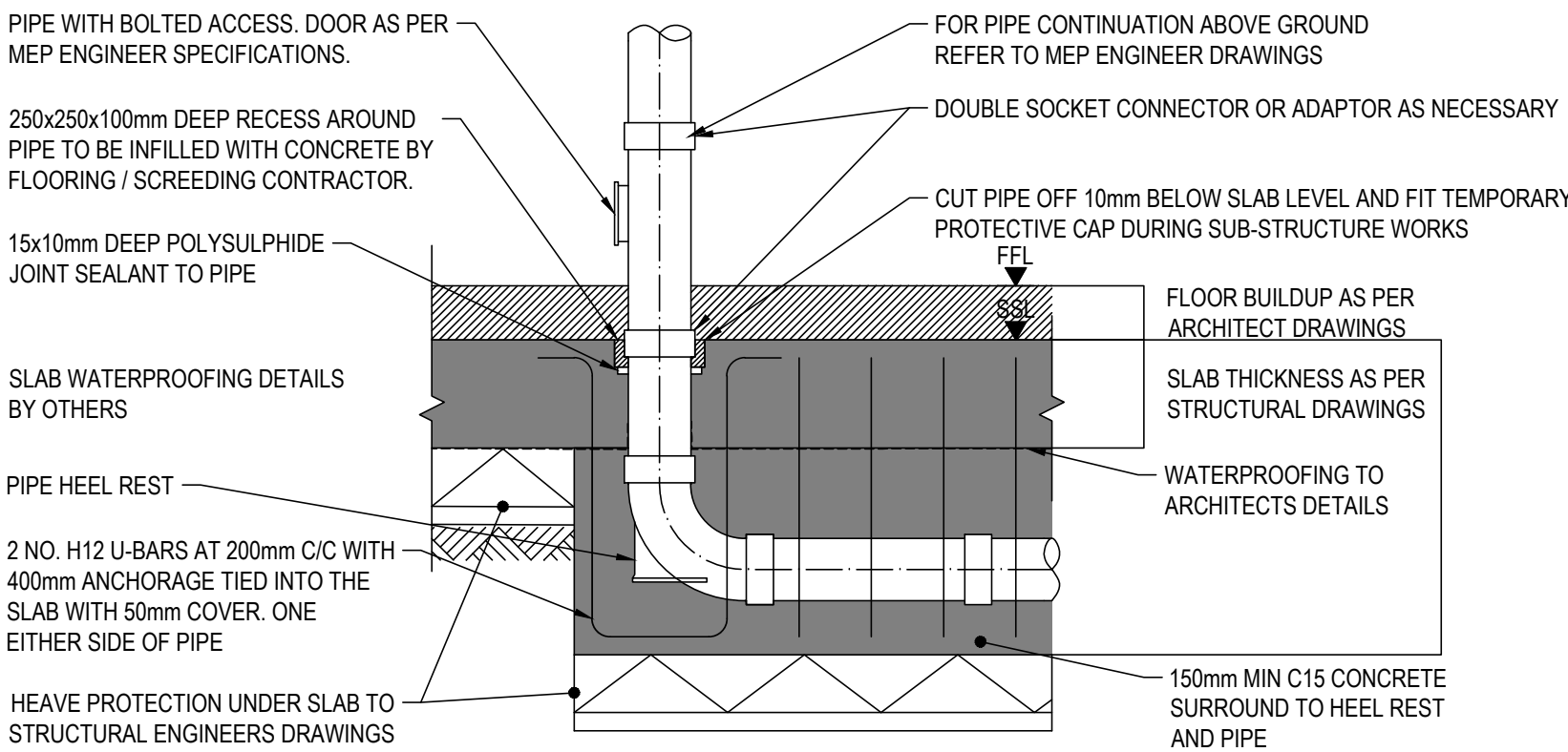
TYPICAL RAIN WATER PIPE DETAIL (1:20)
- ACCESS SHOULD BE PROVIDED ON VERTICAL PIPEWORK
- DETAIL IS BASED ON ABOVE GROUND PIPEWORK BEING CAST IRON



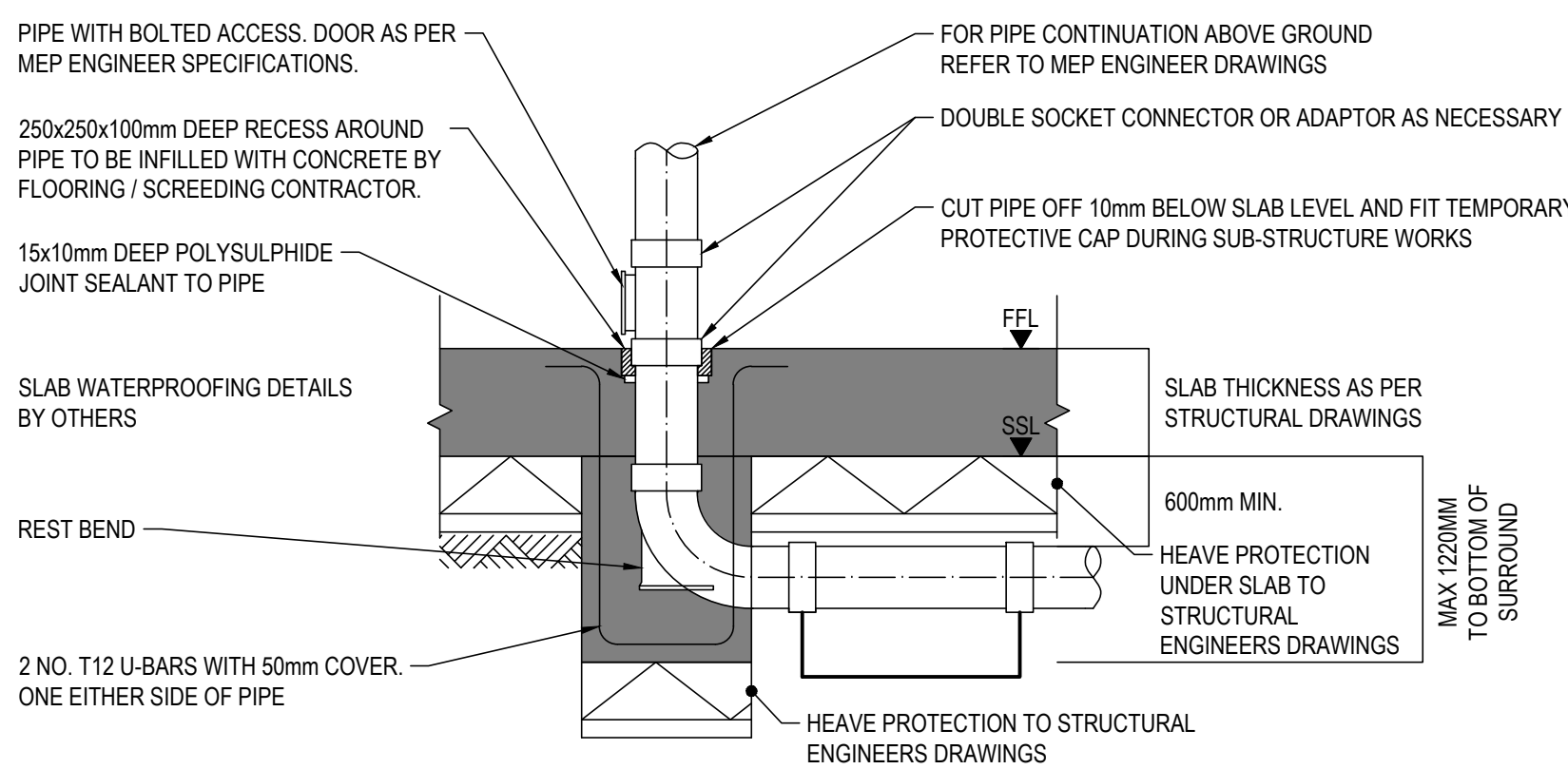
DIMENSION Y		
CLASS	MACHINE DUG UNIFORM SOIL	ROCK OR MIXED SOILS
S	NOTE (i)	NOTE (i)
Z	NOTE (i)	NOTE (i)

(i) Y=BC/6, WITH MIN 100 UNDER BARRELS (50 FOR SLEEVE JOINTED) AND MIN 50 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH MAX OF 400.
(ii) Y=BC/4, WITH MIN 200 UNDER BARRELS (150 FOR SLEEVE JOINTED) AND MIN 150 UNDER SOCKETS, WHICHEVER IS THE GREATER, WITH A MAX OF 400.

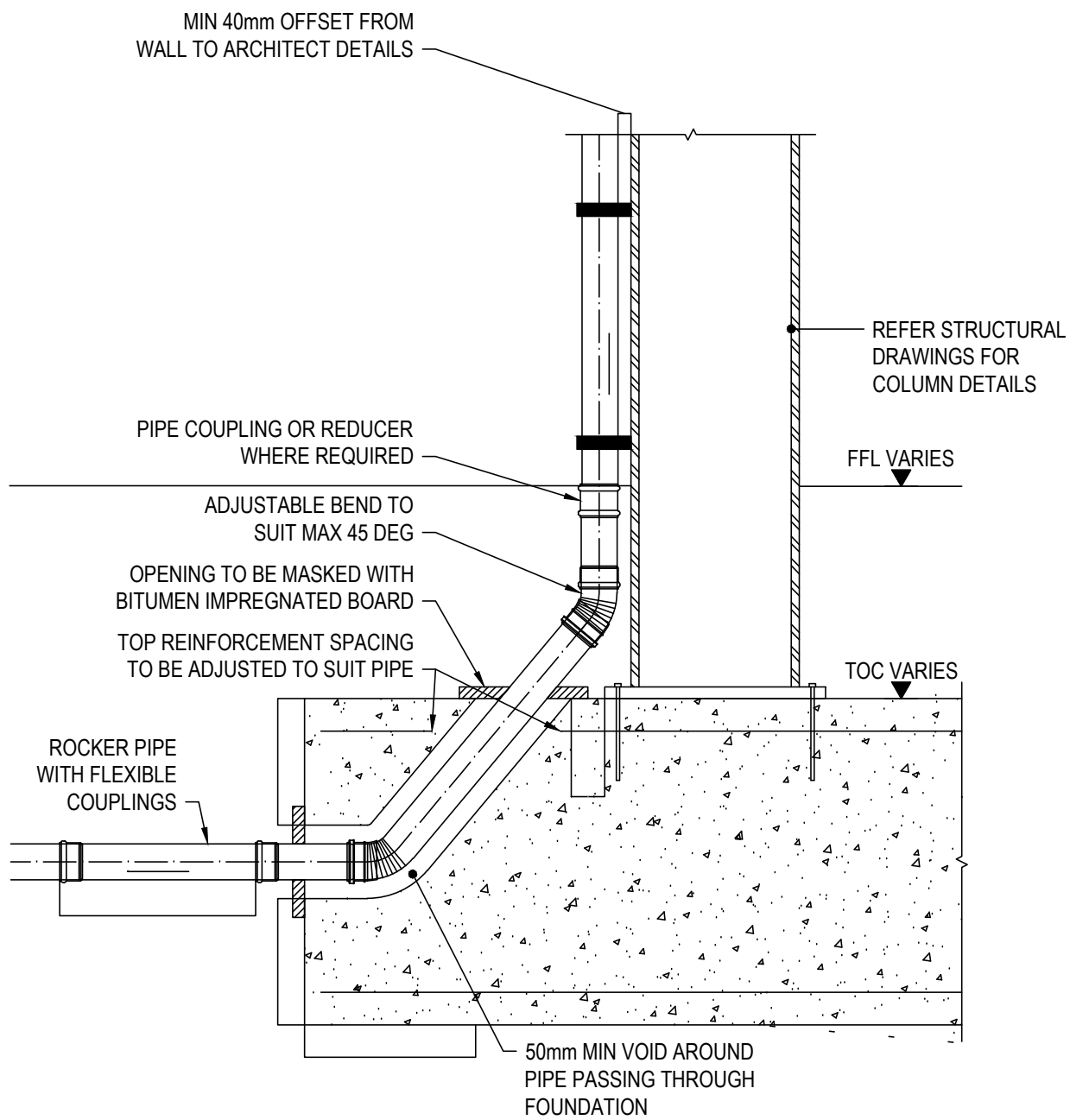
PIPE BEDDING DETAILS
NTS



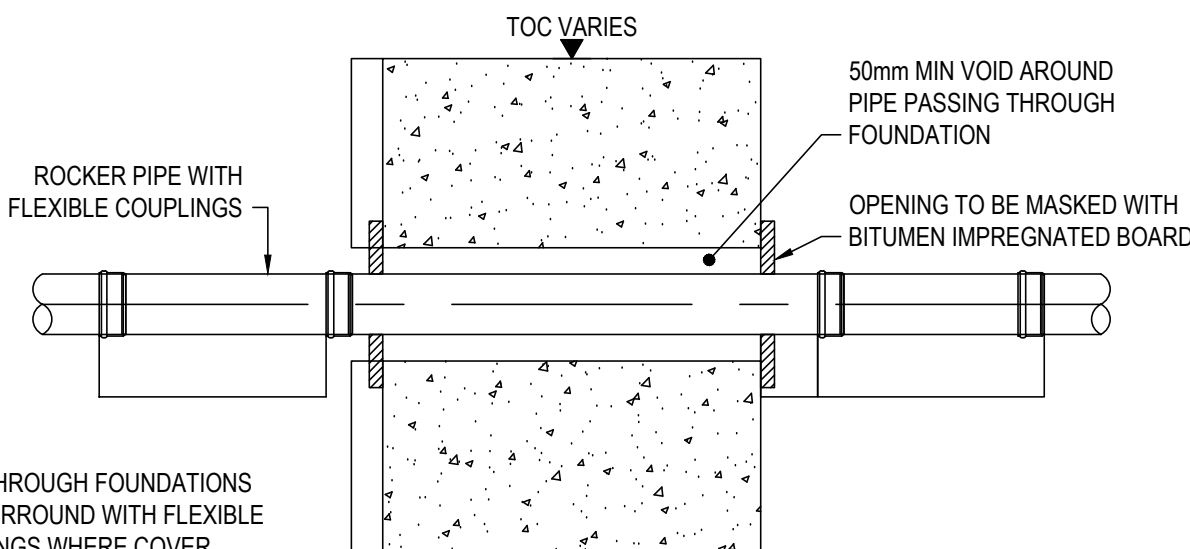
SLAB PENETRATION DETAIL
(CONCRETE SURROUND)
1:20



SLAB PENETRATION DETAIL
1:20



TYPICAL PIPE THROUGH FOUNDATION (ADJACENT COLUMN)
1:20



NOTE: ALL CONNECTIONS THROUGH FOUNDATIONS TO HAVE Z CLASS CONC. SURROUND WITH FLEXIBLE COUPLINGS ON ALL COUPLINGS WHERE COVER LEVEL IS LESS THAN 600mm FOR PEDESTRIAN AREAS AND 900mm FOR VEHICULAR AREAS.

TYPICAL PIPE THROUGH FOUNDATION AND GROUND BEAM DETAIL
1:20

- DRAINAGE WORKS
- 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.
 - All drains are to be laid to a constant gradient between manhole chambers.
 - All pipework to be laid soffit to soffit.
 - All pipes up to 225mm dia to be Vitrified Clay (super strength), and pre-cast concrete pipes for diameters greater than 225mm.
 - The position of new sewers around buildings is diagrammatic only. Sewers should be located within walkways to avoid tree roots.
 - All pipes entering or leaving a manhole or structure to be constructed with flexible joints. Refer to Standard Detail Drawings for requirements.
 - 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).
 - 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).
 - 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).
 - 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:
 - Where specified or approved by the Engineer, private drainage may be UPVC to BS 4060 and BS EN 1401-1.
 - The position of Rainwater and Foul Water drain points (RWPs/SVPs) are shown indicatively. Refer to the Architects or MSE Engineers drawings for detailed setting out.
 - 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.
 - SVPs (by others) to incorporate an access point on vent above ground level.
 - All private drainage works to comply with Approved Document 14 of the Building Regulations.
 - All drainage to be 1000, including connections unless noted otherwise.

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

Amendments

Project

ROCHDALE COLLEGE

Title

DRAINAGE DETAILS
SHEET 1

Client

ROCHDALE COLLEGE



Office Address
Telephone & Fax numbers
mail@watermangroup.com www.watermangroup.com

Work Stage
STAGE 4
Technical Design

Subsidiary
INFORMATION

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 Revision
17591-WSL-01-XX-DR-S-92005 T01