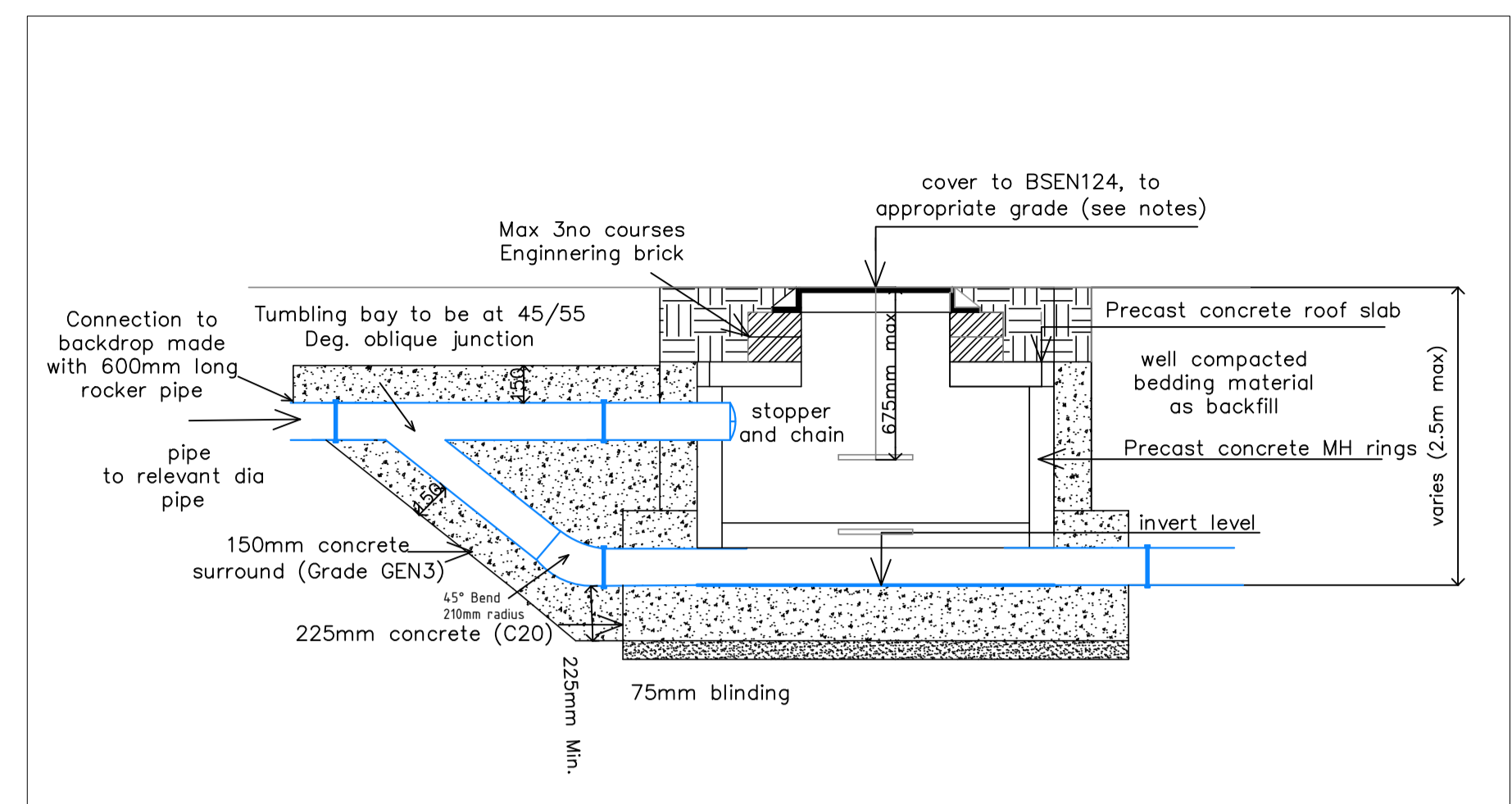
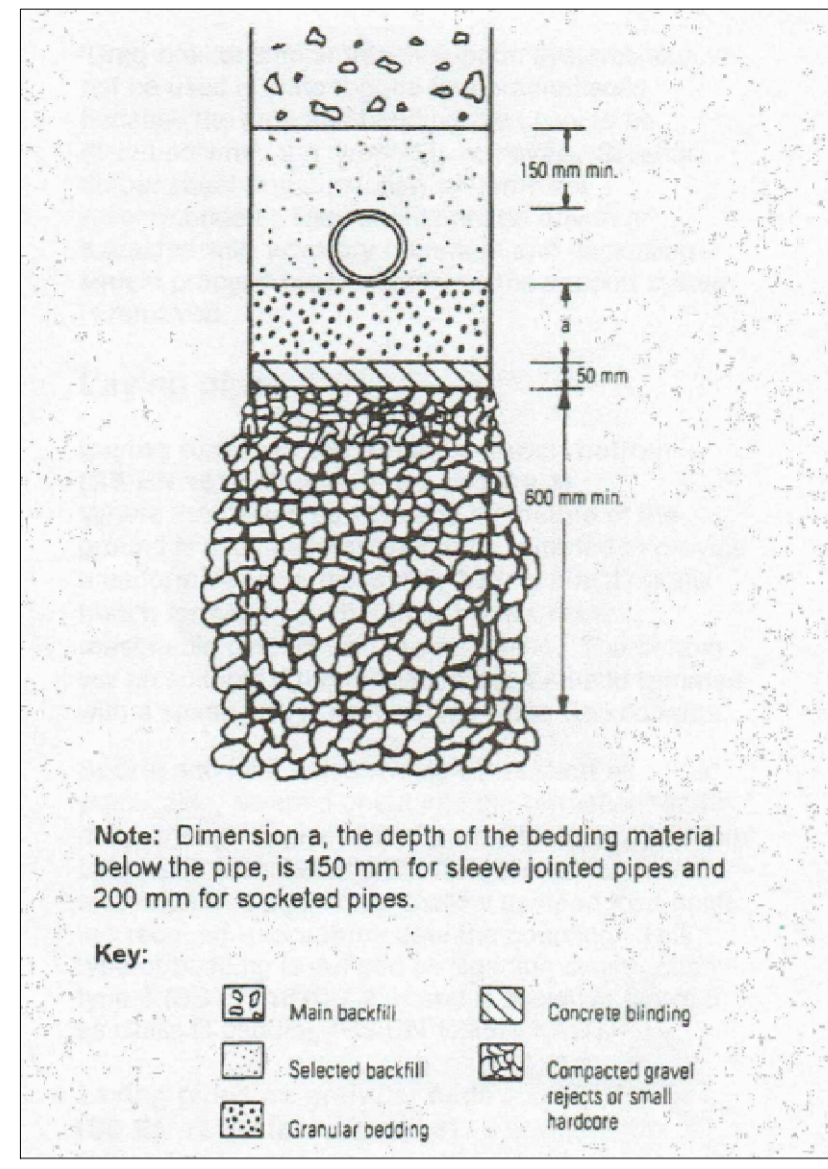


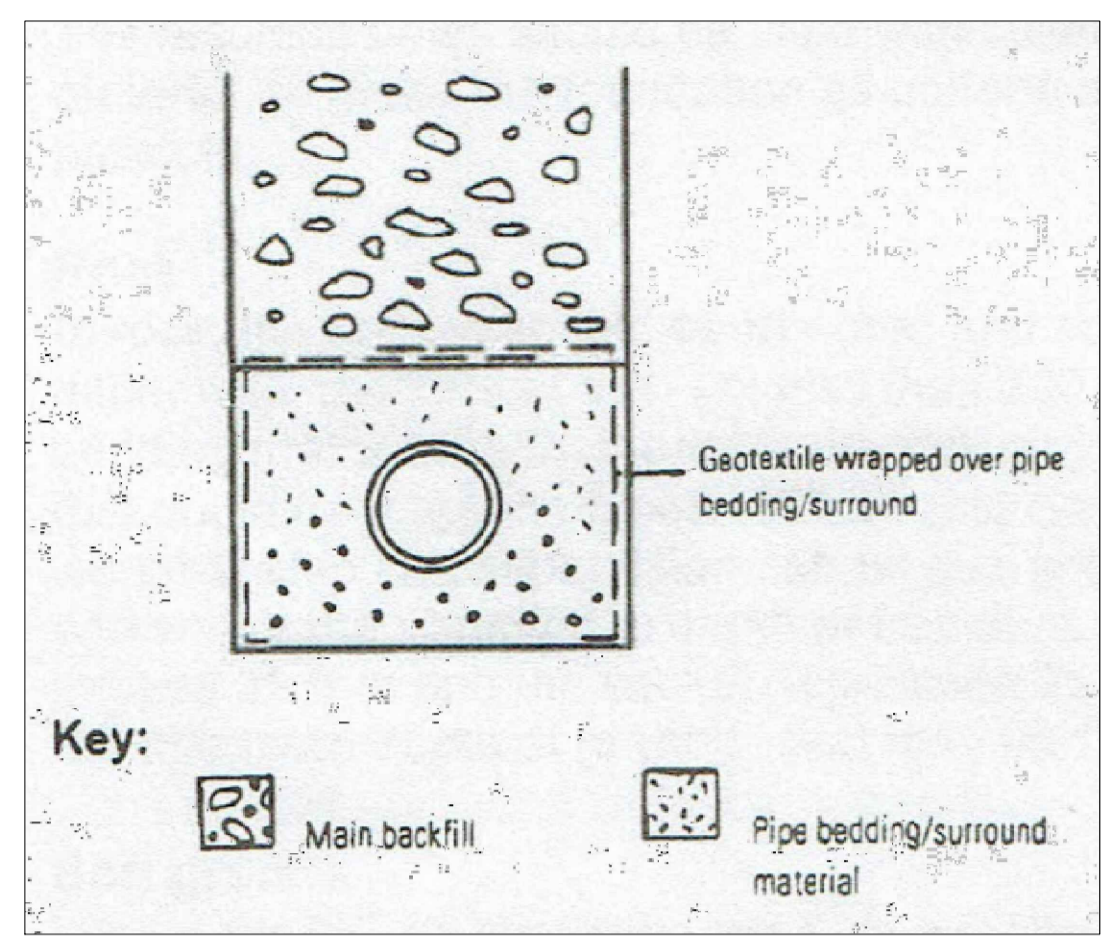
02 Type 3 Inspection Chamber (450Ø)
Collis Primary School
SCALE: 1:20



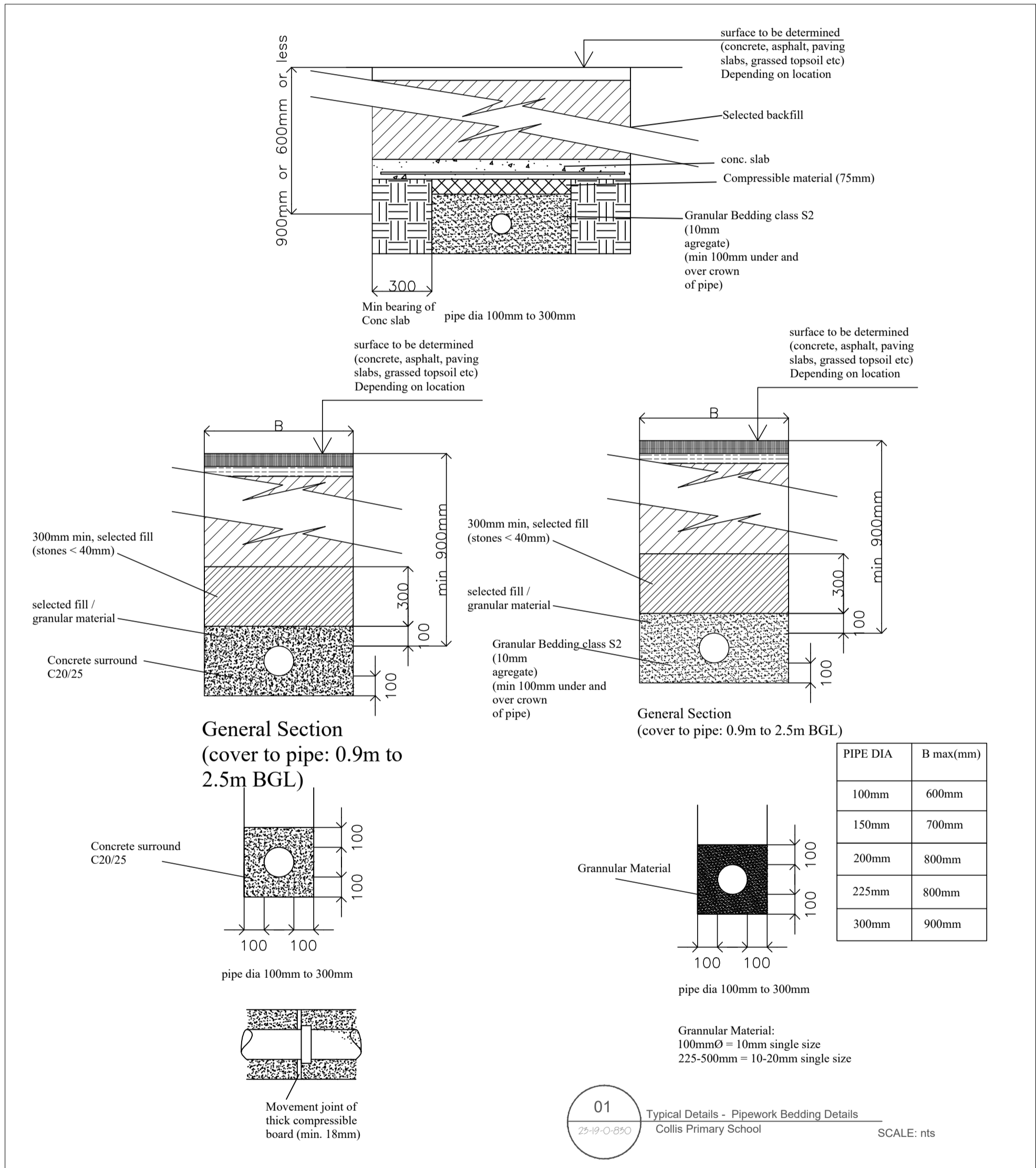
03 Backdrop Manhole
Collis Primary School
SCALE: 1:25



09 Bedding Details for soft ground
Collis Primary School
SCALE: nts



08 Geotextile Detail for Waterlogged ground
Collis Primary School
SCALE: nts



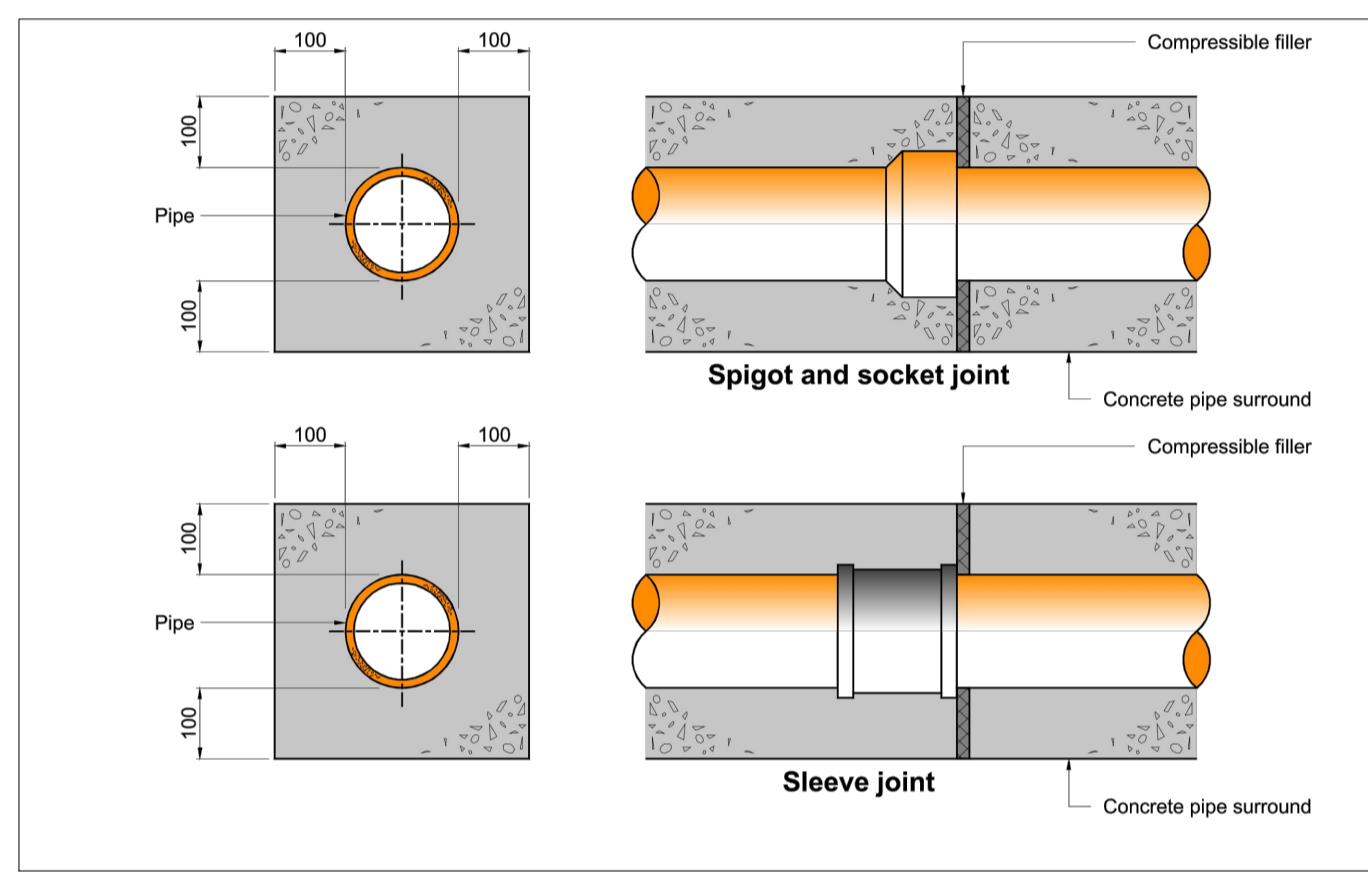
01 Typical Details - Pipework Bedding Details
Collis Primary School
SCALE: nts

Selected Fill: free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material, vegetable matter.

Trench width to be as small as practicable but no less than pipe diameter plus 300mm.

Where pipe bedding detail is not suitable a minimum 100mm concrete surround (min. strength C20P) should be applied. A flexible joint should be inserted at the end coupling joint of min. thickness 18mm, which should extend to the edge of the encasement. Alternatively, where pipes are laid beneath concrete slabs they may be cast-in monolithically in a local thickening of the slab with the need for flexible boards.

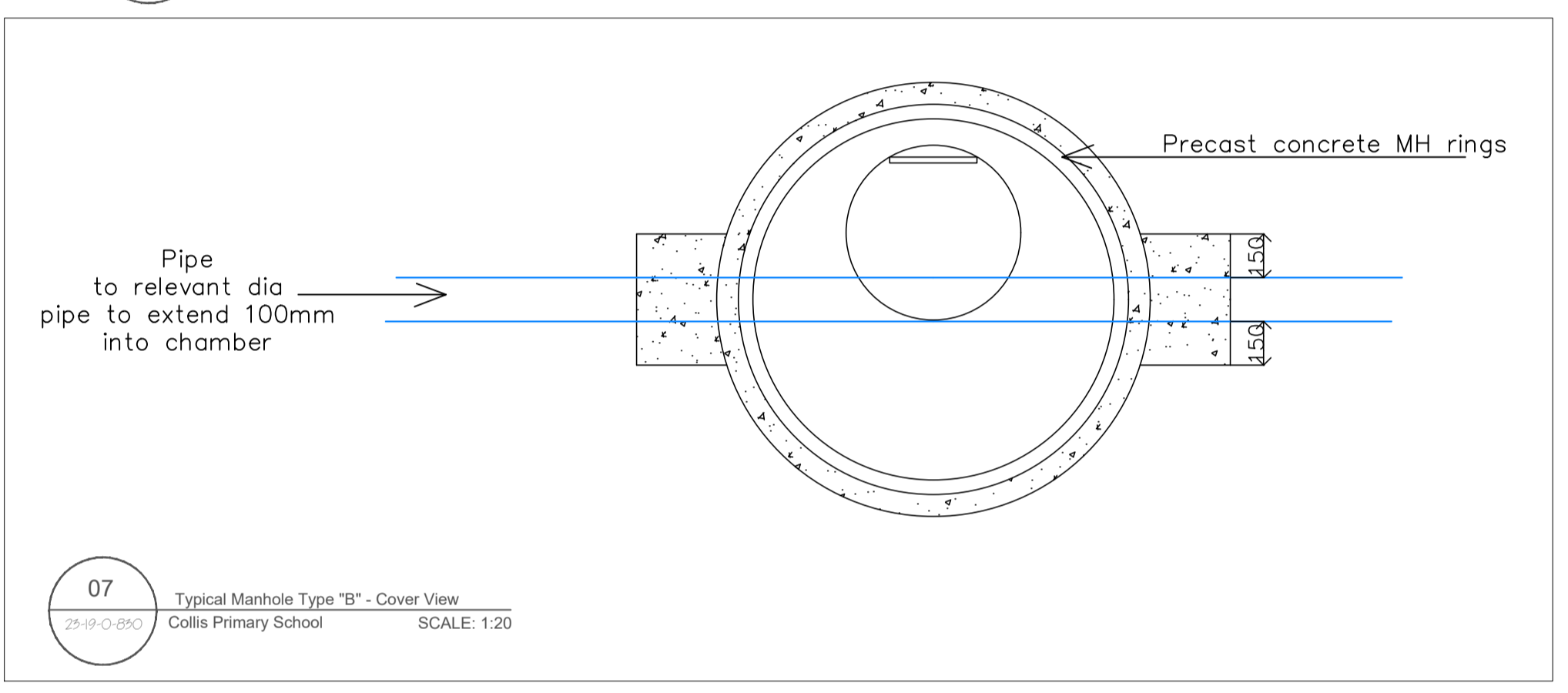
Workmanship: Installation of private drains and sewers should conform to BS EN 752, BS EN 1610 and Part H of the Building Regulations.



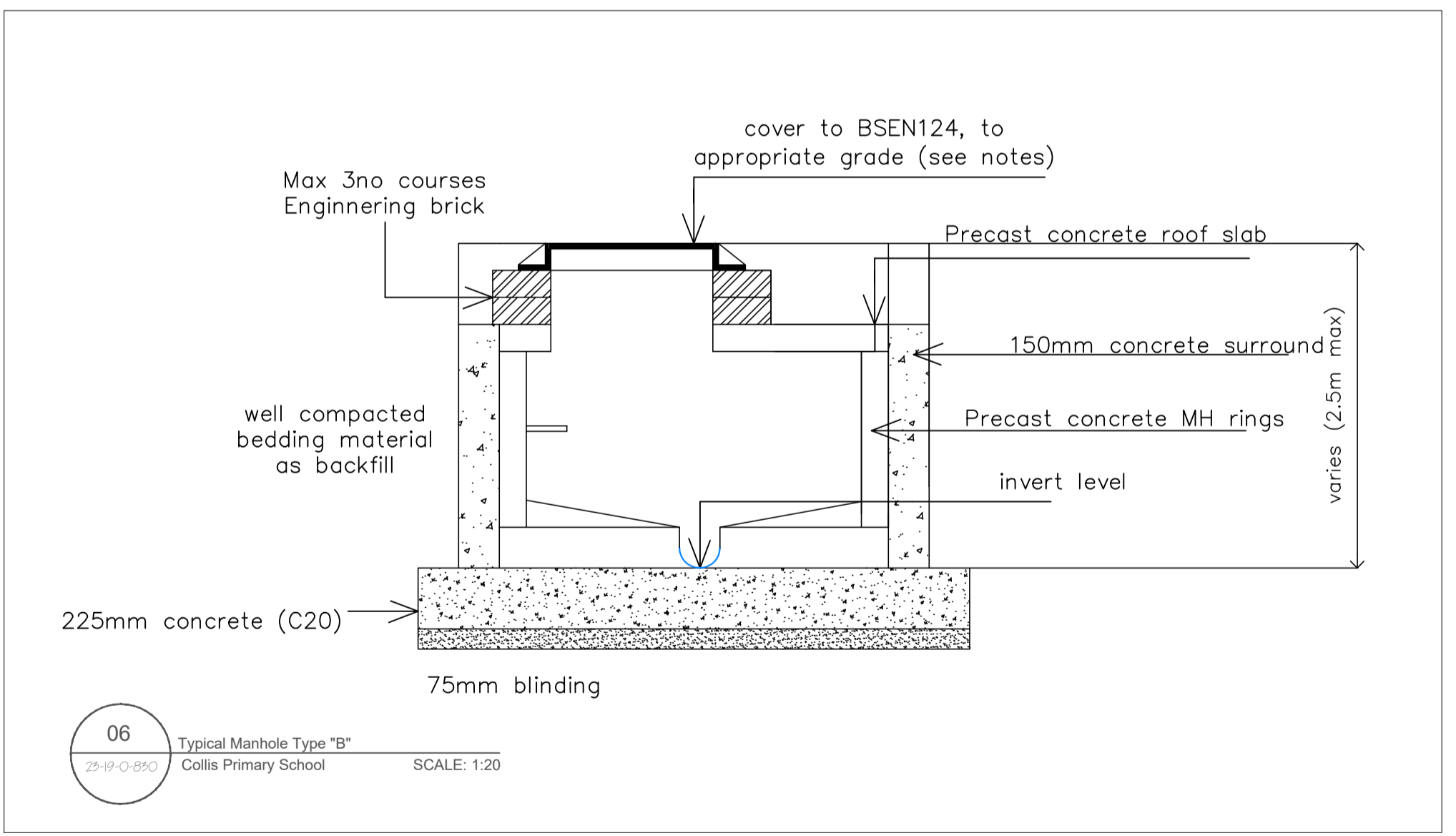
05 Pipes Encased in Concrete
Collis Primary School
SCALE: nts

Maximum length of Rocker Pipes	
Pipe Diameter (mm)	Rocker pipe Length (m)
≤300	0.6
>300 ≤450	0.75
>450 ≤1000	1.0

04 Rocker Pipe Lengths
Collis Primary School
SCALE: nts



07 Typical Manhole Type "B" - Cover View
Collis Primary School
SCALE: 1:20



06 Typical Manhole Type "B"
Collis Primary School
SCALE: 1:20

NOTES:
All private drainage works shall be in accordance with The Buildings Approved Document H and BS EN 752.
All works to new or existing public sewers shall be approval of the Water Authority and in accordance with Sewers for Adoption.
All excavations shall be kept free from standing water.
Cover Grades to BSEN124:
Trafficked areas - D400
Non-trafficked areas - C250
Pedestrian areas - B125
Gratings in pedestrian areas to be designed for pedestrian use (ie heel safe).
All cover levels shown on this drawing are approximate. Exact levels of new covers and frames to be determined on site to match levels and profile of finished surfaces.
Soft Spots:
Unconsolidated ground occurring below formation should be removed & replaced with suitable, well compacted material (EN 1610 Cl. 7.1)
Soft Ground:
Where trench formation has little bearing strength & will not support pipe bedding material effectively, it is necessary to provide a stable formation before pipelaying.
The trench formation & manhole bases should be over-excavated by 600-800mm, depending on bearing strength of the ground. Hardcore less than 75mm, is then compacted in layers to form a firm trench bottom. A 50mm thickness of lean-mix is then laid on granular bedding material (detail 9). Where Class S bedding is required, additional bedding material will either partially or wholly replace the selected backfill material.

Waterlogged Ground:
Where groundwater exists at a level above the new trench bottom, additional methods of bedding stabilisation should also be applied.
Geotextile should be wrapped around the whole bedding construction, including any compacted material in the trench bottom as detailed for soft ground (Detail 10) The use of a geotextile around the base of the trench will assist compaction in soft ground conditions & limit the movement of fines from the bedding material.
Measure are also needed to prevent movement of fines under manholes. The geotextile is to be continued around the outside of the manhole excavation and under any manhole bedding material.

Refer to revision sheet for all amendment details

Rev	Date	General Revision	Drwn	chkd
issue for: Draft CP				

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Do Not Scale from drawing. Only written dimensions are to be taken in respect of this project.
All dimensions are in millimetres unless otherwise stated.
The designer is to be notified immediately of any suspect omissions or discrepancies.
This drawing is to be read in conjunction with all other relevant drawings and details.
Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Designer should be notified PRIOR to construction on site.
The Contractor is responsible for ensuring that all works are to the satisfaction of the Designer.
All workmanship is to be constructed in accordance with current Building Regulations.
All levels are in relation to Ordnance Datum, unless otherwise stated.

Client: Extraspace Solutions Ltd			
Project Title: Collis Primary School			
Drwg Title: Drainage Details			
Drwn by: JON	Date: July 19		
chkd by: M.C	Date: July 19		
Job No: 23-19	Scale: varies	paper size: A1	
Drwg No: 23-19-0-830	Ref:	Sheet:	Rev:

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