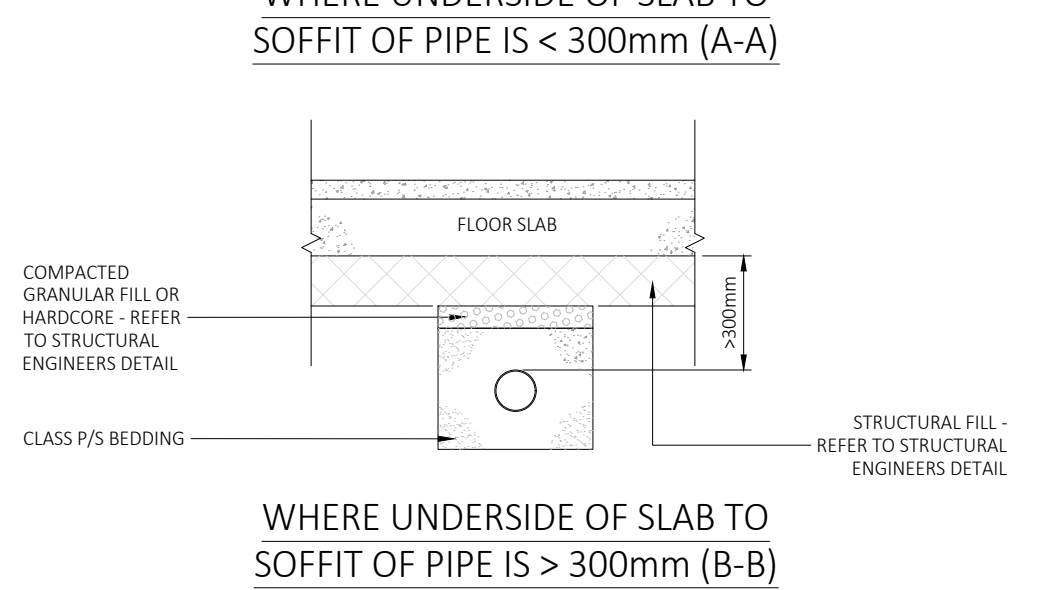
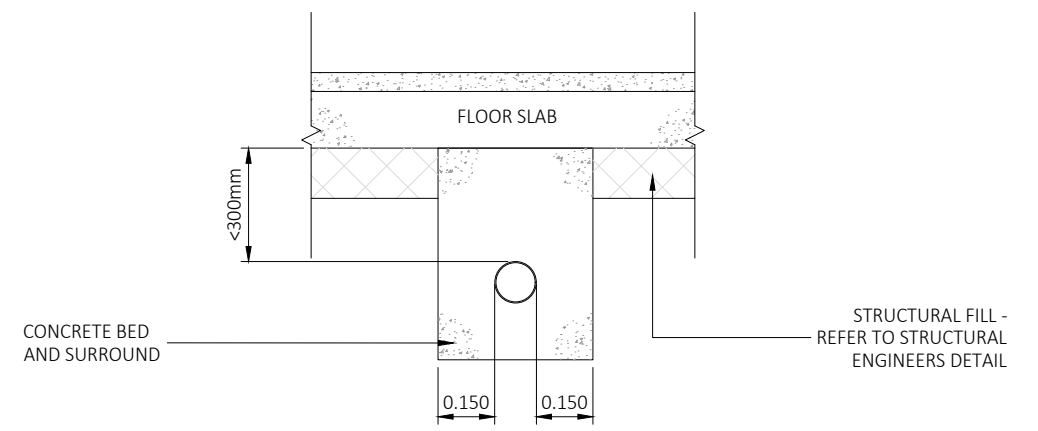
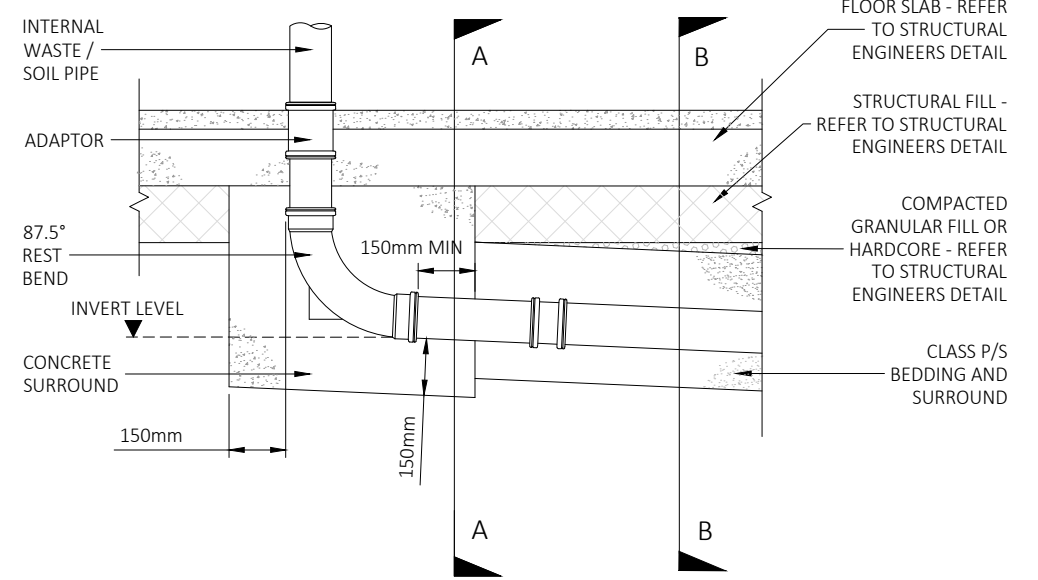
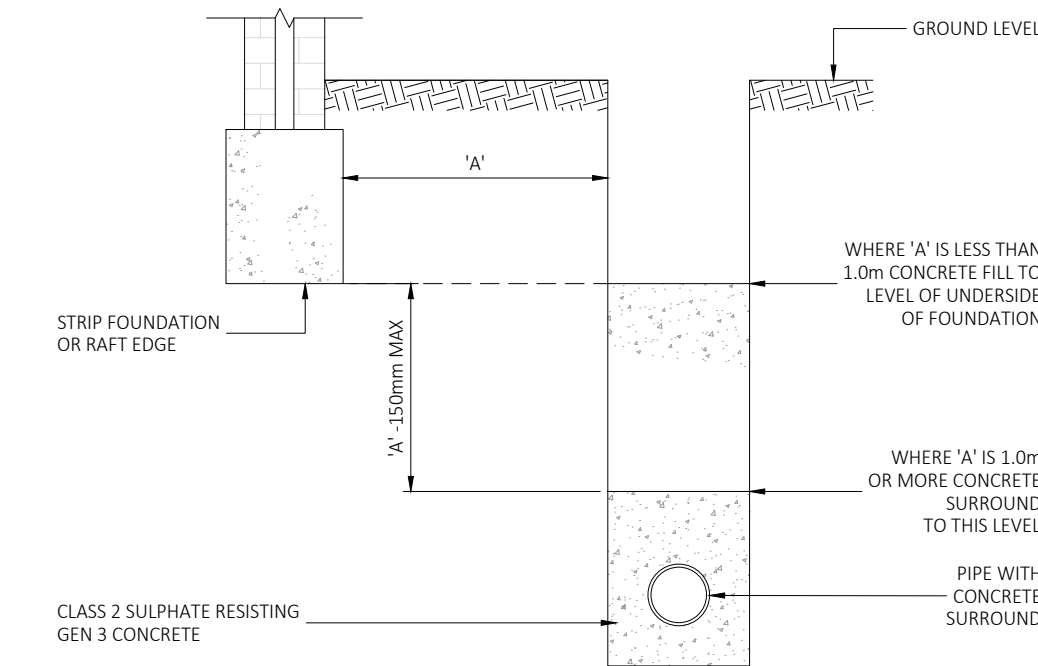


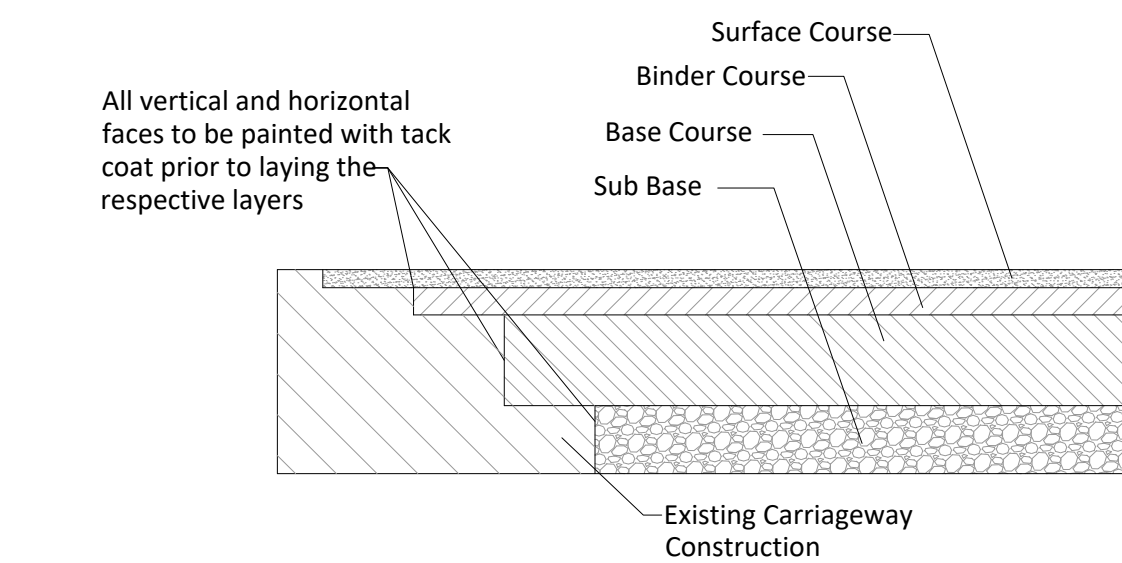
Filename: P:\Manchester Central Office\STRUCTURES\33445-The Limes Relocation_UmM01_WIP\08_Drawing\33445-HYD-XX-XX-DR-C-0211 T2 Drainage and External Pavement Details.dwg



PIPES BENEATH INTERNAL SLAB DETAIL

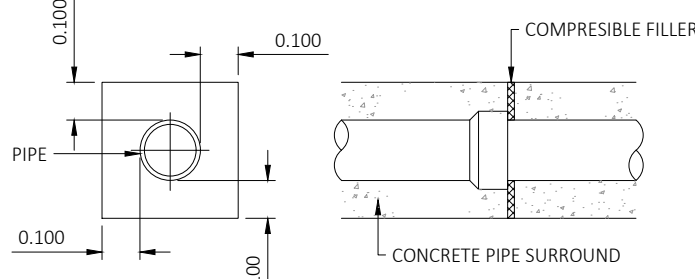


PIPE RUNS NEAR BUILDING FOUNDATIONS

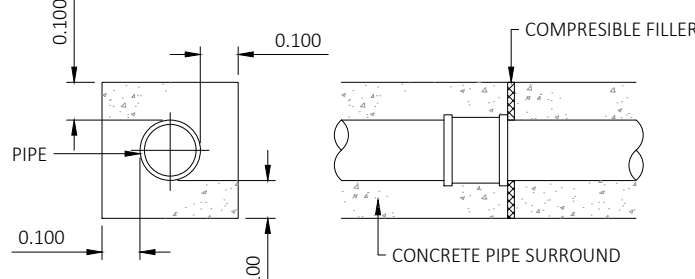


LONGITUDINAL TIE-IN DETAIL TO EXISTING CARRIAGEWAY

FOR TIE-IN TO ADOPTED HIGHWAYS REFER TO THE LOCAL APPROVING AUTHORITY'S STANDARD DETAILS (Scale 1 : 25)



SPIGOT AND SOCKET JOINT

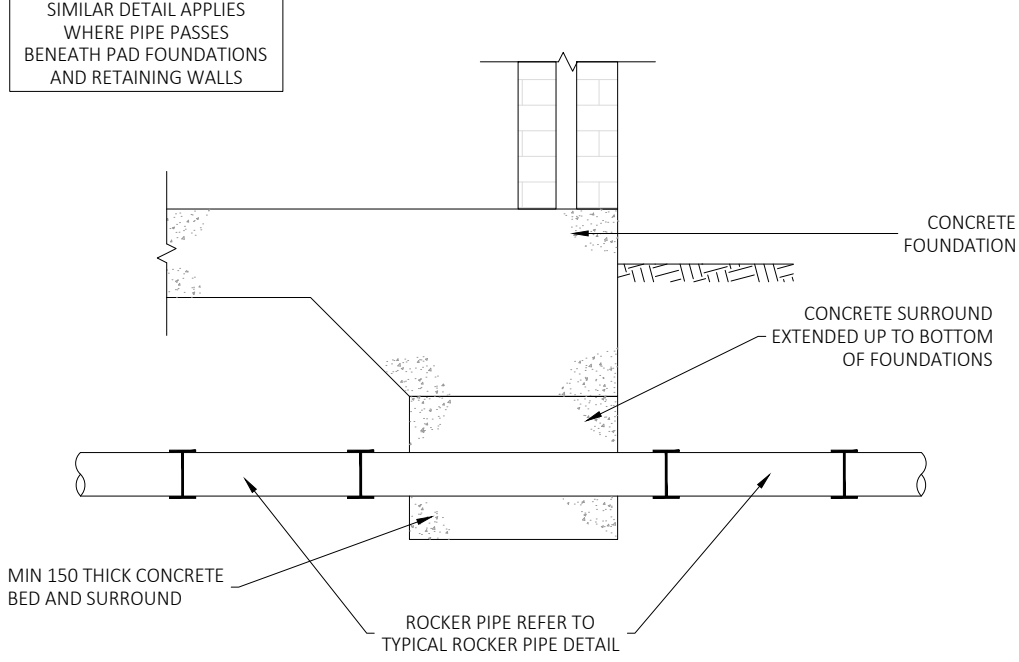


SLEEVE JOINT

- NOTES
- COMPRESSIBLE FILLER BOARD TO CONSIST OF INSULATION BOARD TO BS EN 622-1 AND 622-4.
 - WHERE CONCRETE SURROUND IS PROVIDED, COMPRESSIBLE FILLER BOARD TO BE LOCATED AT EVERY SOCKET OR SLEEVE JOINT FACE.

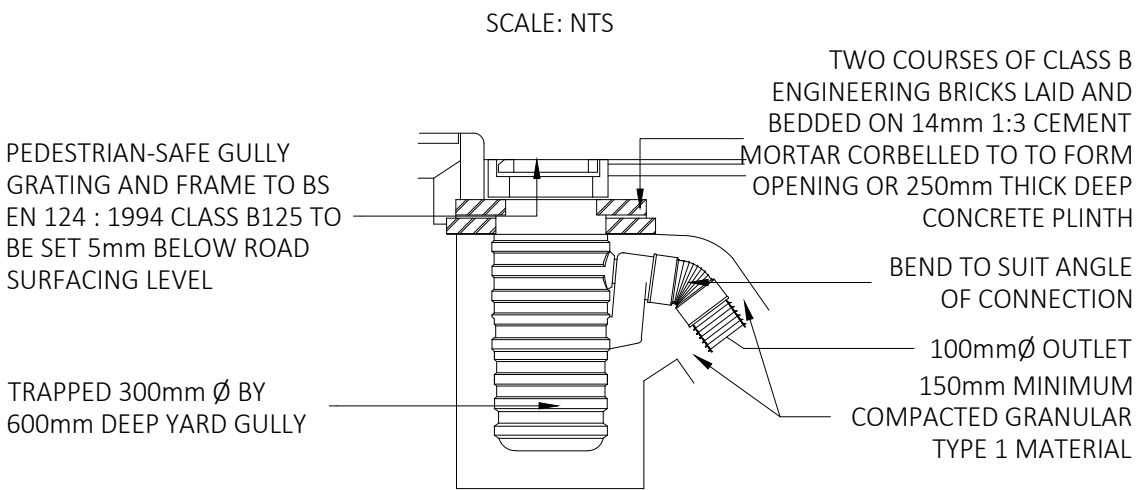
NOMINAL DIAMETER OF PIPE (mm)	THICKNESS OF COMPRESSIBLE FILLER (mm)
100 TO 450	18
>450 TO 1200	36
>1200	54

DETAIL OF FLEXIBLE JOINT IN CONCRETE SURROUND



DETAIL OF PIPE PASSING BENEATH FOUNDATION

YARD GULLY



PIPE BEDDING NOTES

SCALE: NTS

TRENCH BACKFILL MATERIAL

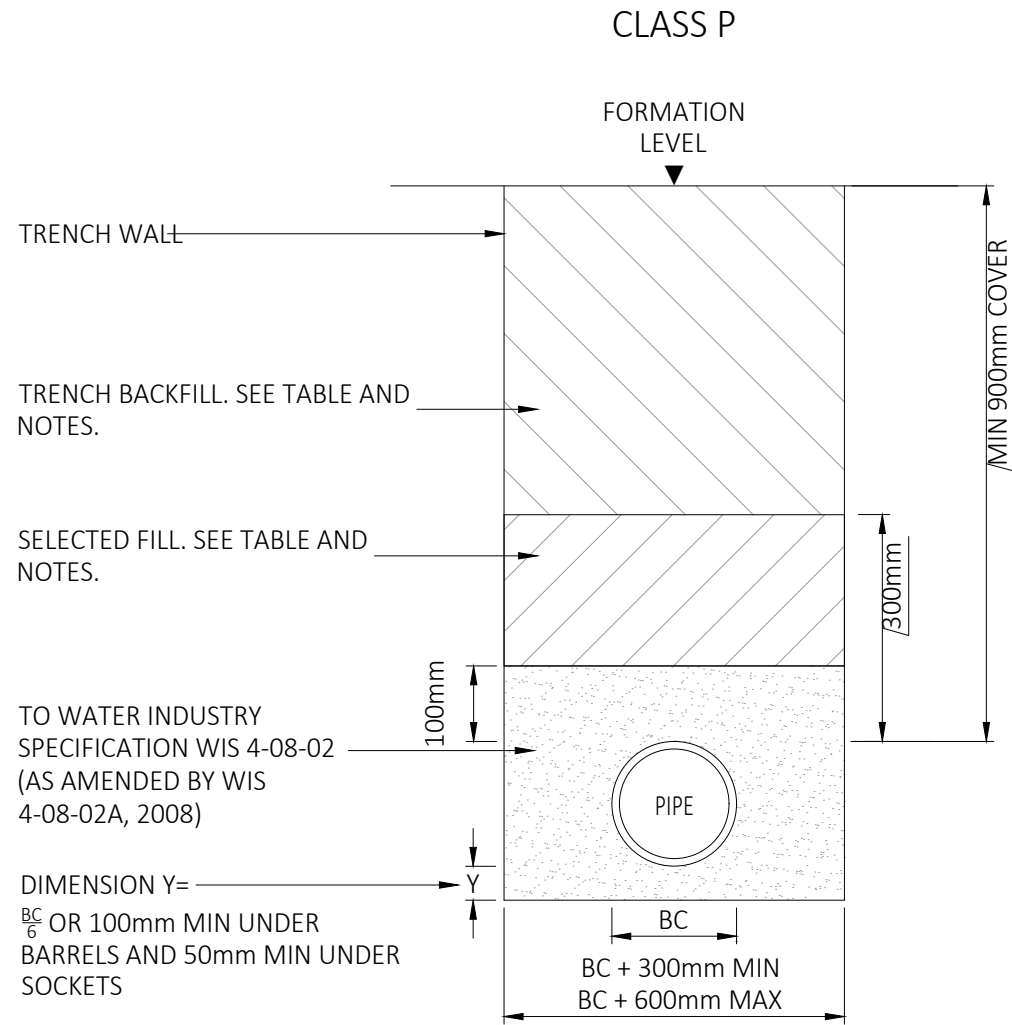
TRENCH BACKFILL MATERIAL, WHETHER SELECTED FROM LOCALLY EXCAVATED MATERIAL OR IMPORTED, SHALL CONSIST OF UNIFORM, READILY COMPACTABLE MATERIAL, FREE FROM VEGETABLE MATTER, BUILDING RUBBISH AND FROZEN MATERIAL, OR MATERIALS SUSCEPTIBLE TO SPONTANEOUS COMBUSTION, AND EXCLUDING CLAY OF LIQUID LIMIT GREATER THAN 80 AND/OR PLASTIC LIMIT GREATER THAN 55 AND MATERIALS OF EXCESSIVELY HIGH MOISTURE CONTENT. CLAY LUMPS AND STONES RETAINED ON 75mm AND 37.5mm SIEVES RESPECTIVELY SHALL BE EXCLUDED FROM THE BACKFILL MATERIAL. TRENCH BACKFILL MATERIAL TO EXCAVATIONS SITUATED IN HIGHWAYS SHALL BE TYPE 1 GRANULAR SUB-BASE MATERIAL TO SHW CLAUSE 803 UP TO FORMATION LEVEL. TRENCH BACKFILL MATERIAL COMPACTED IN LAYERS NOT GREATER THAN 250mm THICK. HEAVY COMPACTION EQUIPMENT NOT TO BE USED UNTIL PIPE HAS MINIMUM COVER OF 250mm.

BEDDING AND SIDEFILL MATERIAL

BEDDING, SIDEFILL AND SURROUND MATERIALS SHALL COMPLY WITH WATER INDUSTRY SPECIFICATION NO. 4-08-02. BEDDING AND SIDEFILL MATERIAL MAY BE SELECTED AS-DUG GRANULAR MATERIAL OR PROCESSED GRANULAR MATERIAL COMPLYING WITH TABLES 1 AND 2 FOR RIGID AND FLEXIBLE PIPES RESPECTIVELY. MATERIAL EXCAVATED FROM TRENCHES DUG THROUGH LAND CONTAMINATED WITH DOMESTIC, BUILDING OR INDUSTRIAL WASTE SHOULD NOT BE USED AS BEDDING AND SIDEFILL MATERIAL. SELECTED EXCAVATED MATERIAL SHOULD BE READILY COMPACTABLE AND BE FREE FROM ORGANIC MATTER AND COMBUSTIBLE MATERIALS. FROZEN SOIL SHOULD NOT BE USED. DURING SELECTION, SOIL CONTAINING CLAY LUMPS LARGER THAN 75mm AND STONES LARGER THAN THOSE PERMITTED IN TABLES 1 OR 2 AS APPROPRIATE SHOULD BE DISCARDED. ALL SELECTED AS-DUG GRANULAR BEDDING AND SIDEFILL MATERIAL SHOULD BE EVALUATED USING THE COMPACTION FRACTION TEST DETAILED IN APPENDIX B OF THE WIS NO. 4-08-02. MATERIALS ARE SUITABLE IF THE VALUES OBTAINED DO NOT EXCEED THOSE GIVEN IN TABLE 1 AND 2 AS APPROPRIATE.

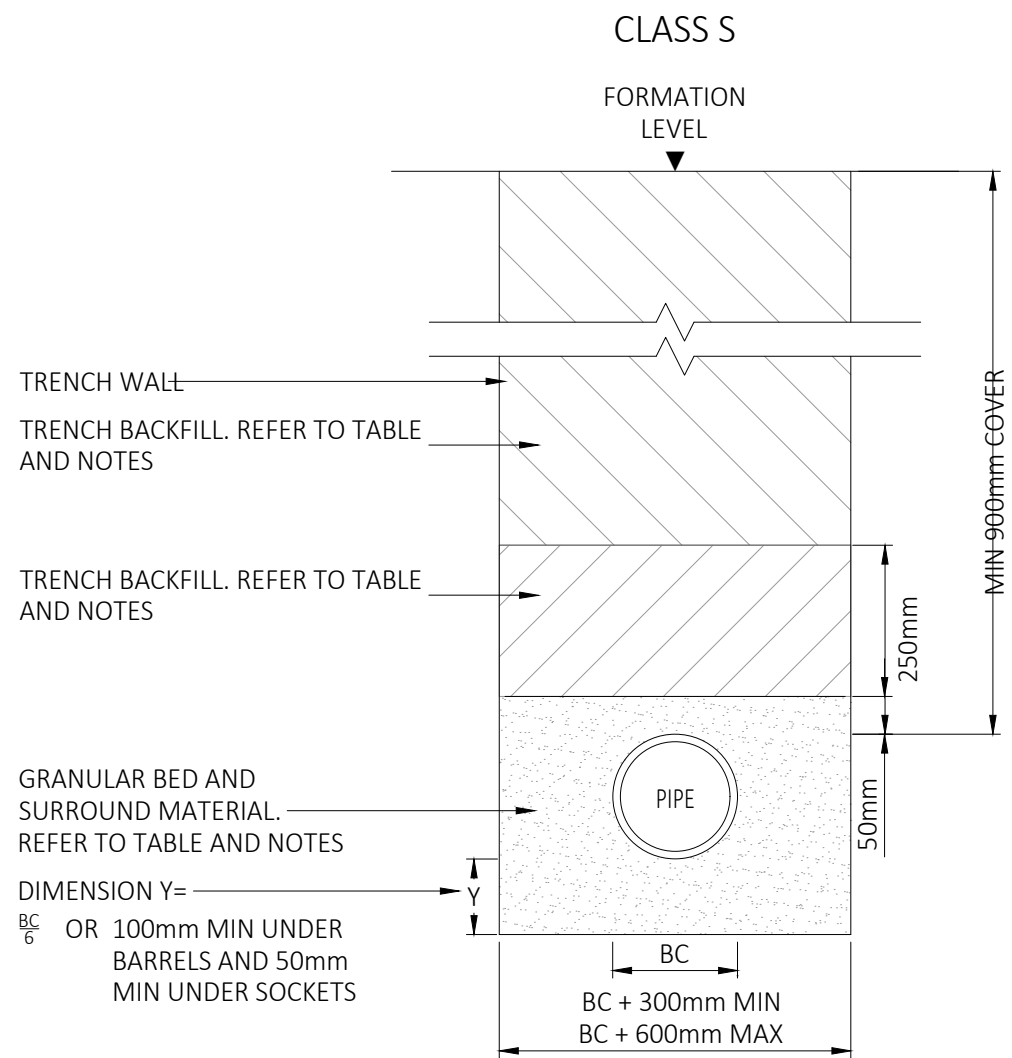
PIPE BEDDING DETAIL

SCALE: NTS



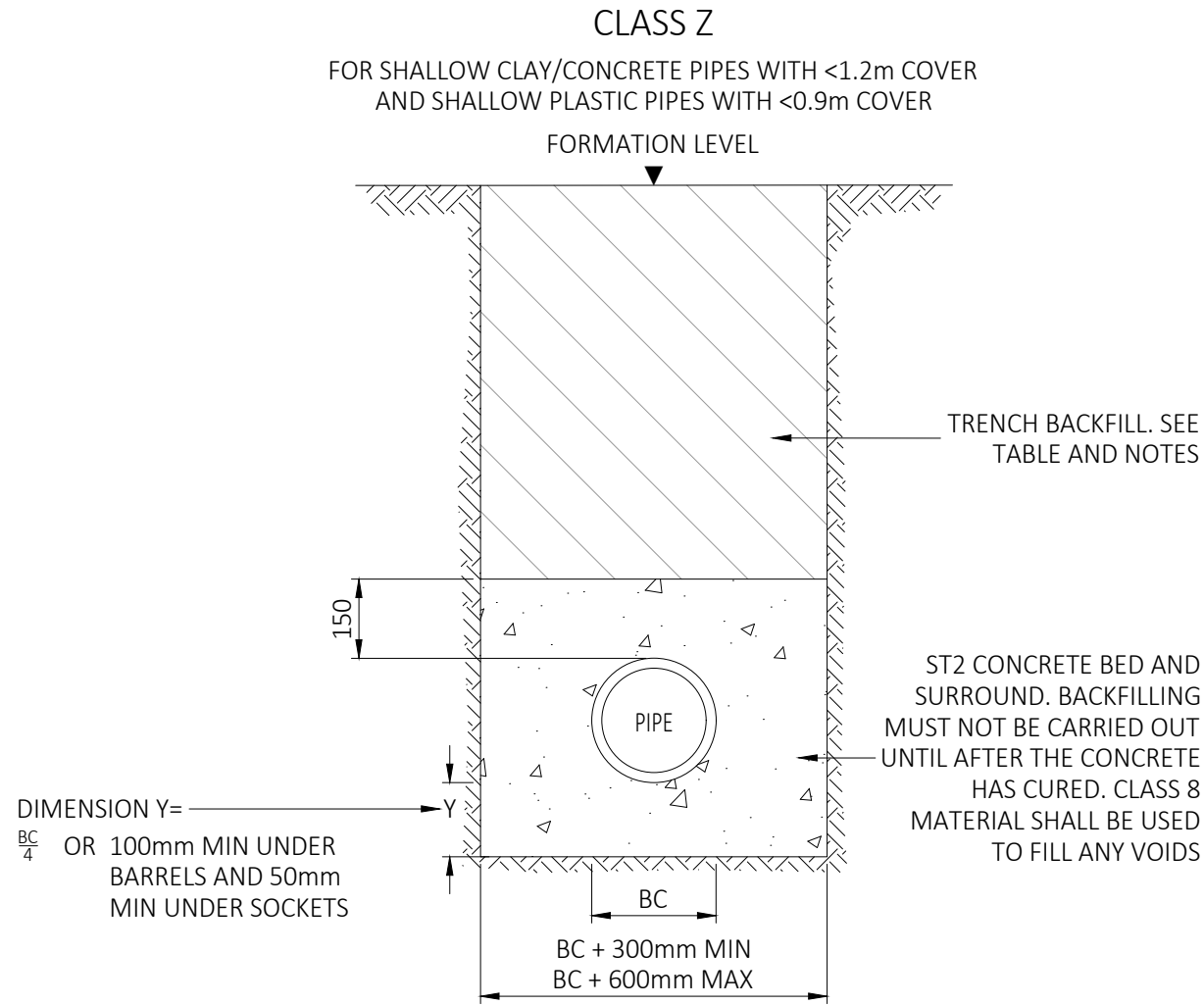
PIPE BEDDING DETAIL

SCALE: NTS



PIPE BEDDING DETAIL

SCALE: NTS



DO NOT SCALE

NOTES:

- ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE THE COMMENCEMENT OF WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT AND ENGINEER FOR VERIFICATION.
- FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWING.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS' AND SERVICE ENGINEERS' DRAWINGS AND SPECIFICATIONS.

REVISIONS

P02	Details Amended	21/10/24	JM	CF NB
P01	First Issue	18/09/24	JK	CF NB
Rev.	Revision Notes	Date	Drawn By	Checked Approved



St Baldred's Hall
239 Ashley Road
Hale
WA15 9NE
t: +44(0)161 2330746
e: manchester@hydrock.com

CLIENT

THE UNIVERSITY OF MANCHESTER

PROJECT

THE LIMES RELOCATION

TITLE

CONSTRUCTION DETAILS SHEET 2

HYDROCK PROJECT NO.

C-33445

SCALE @ A1

NTS

STATUS DESCRIPTION

SUITABLE FOR INFORMATION

STATUS

S2

DRAWING NO.

33445-HYD-XX-XX-DR-C-0212

REVISION

P02