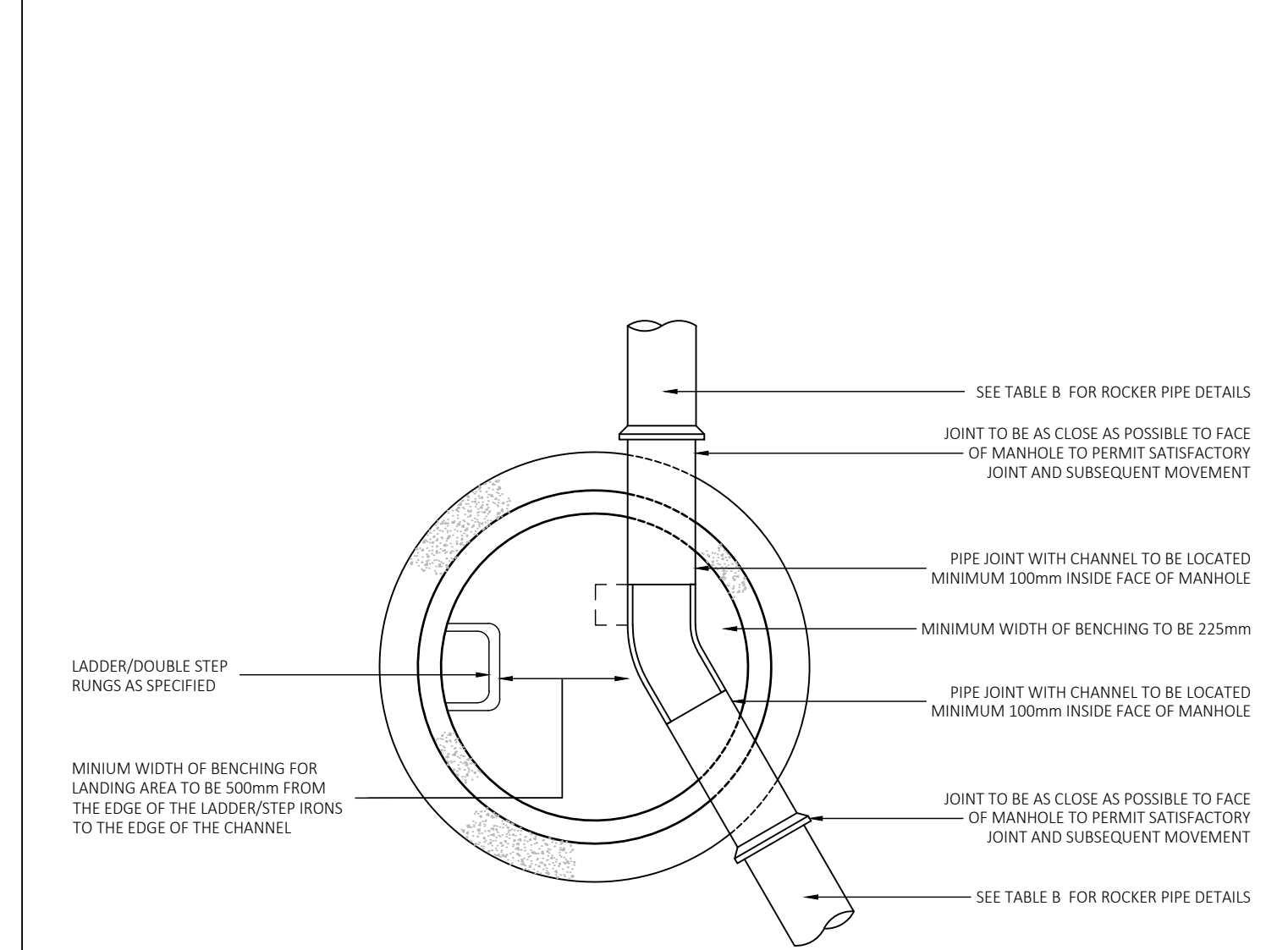
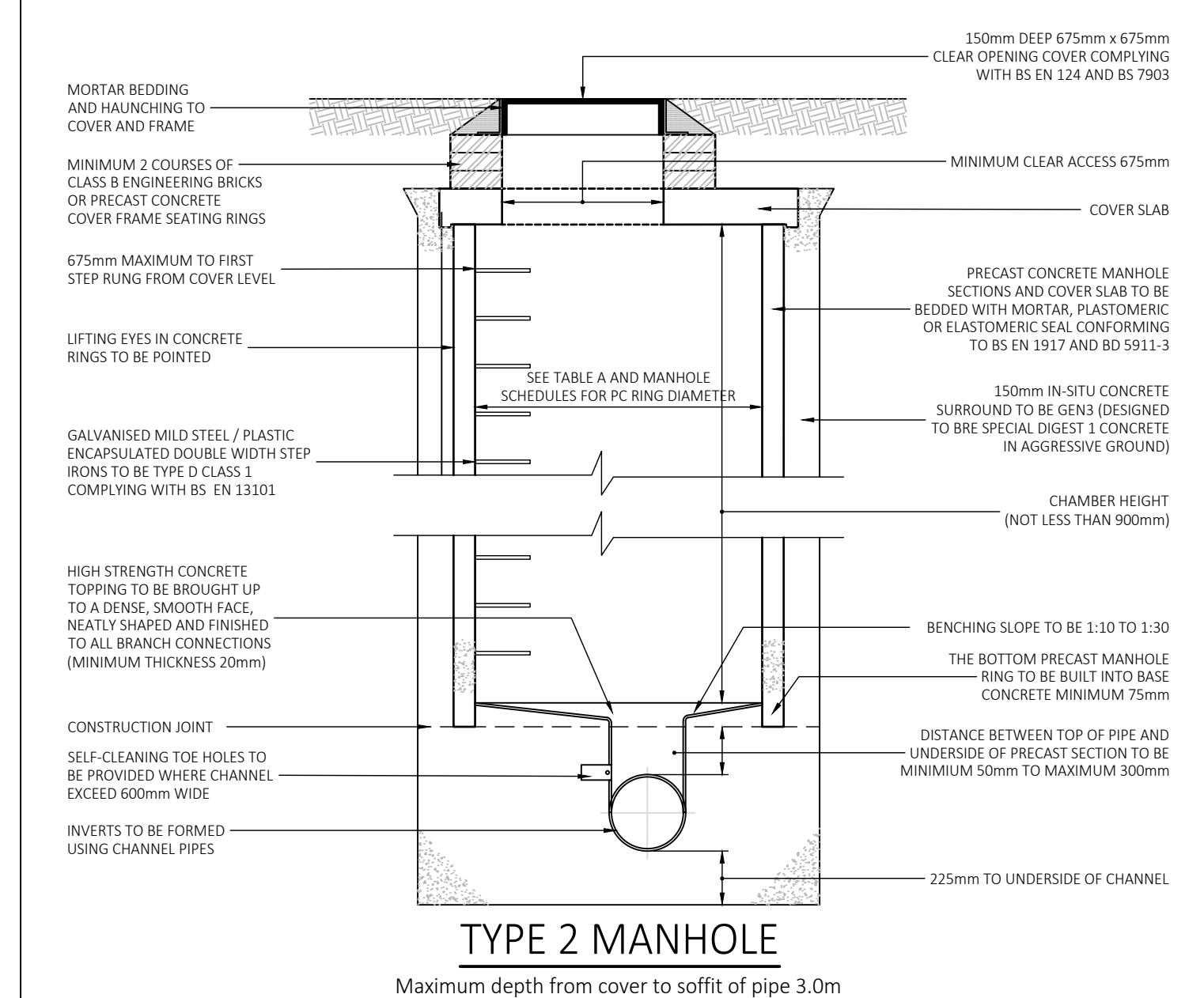
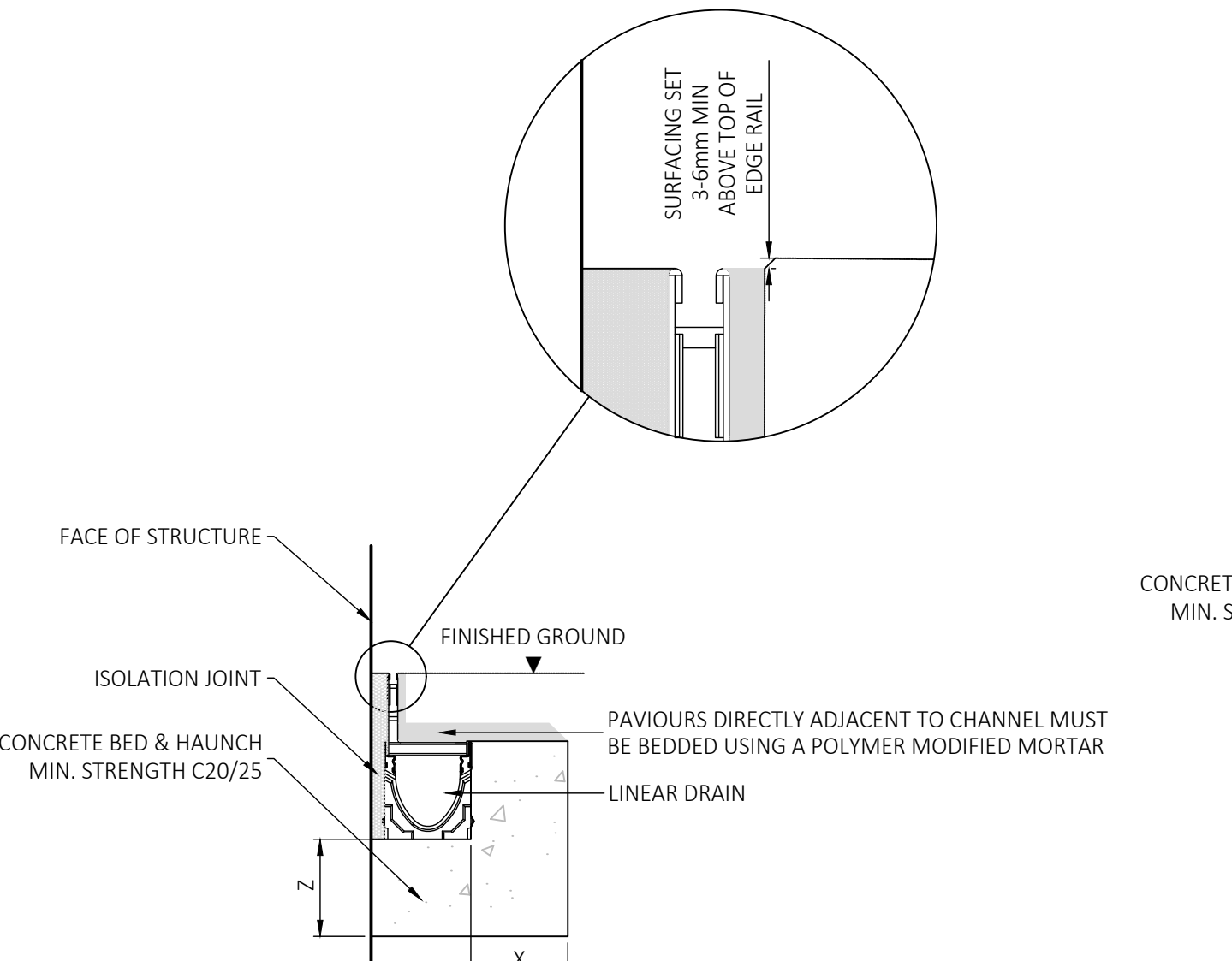
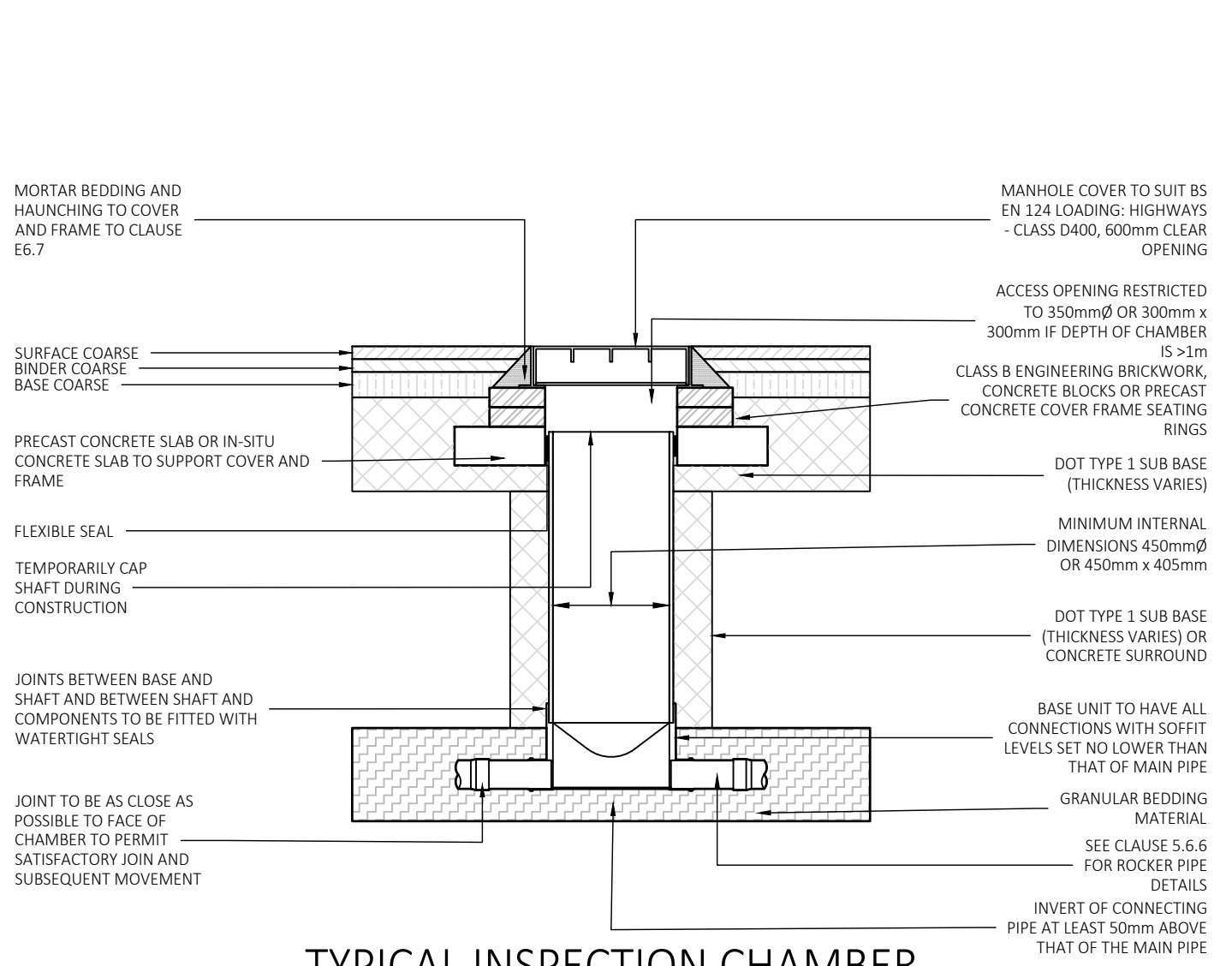


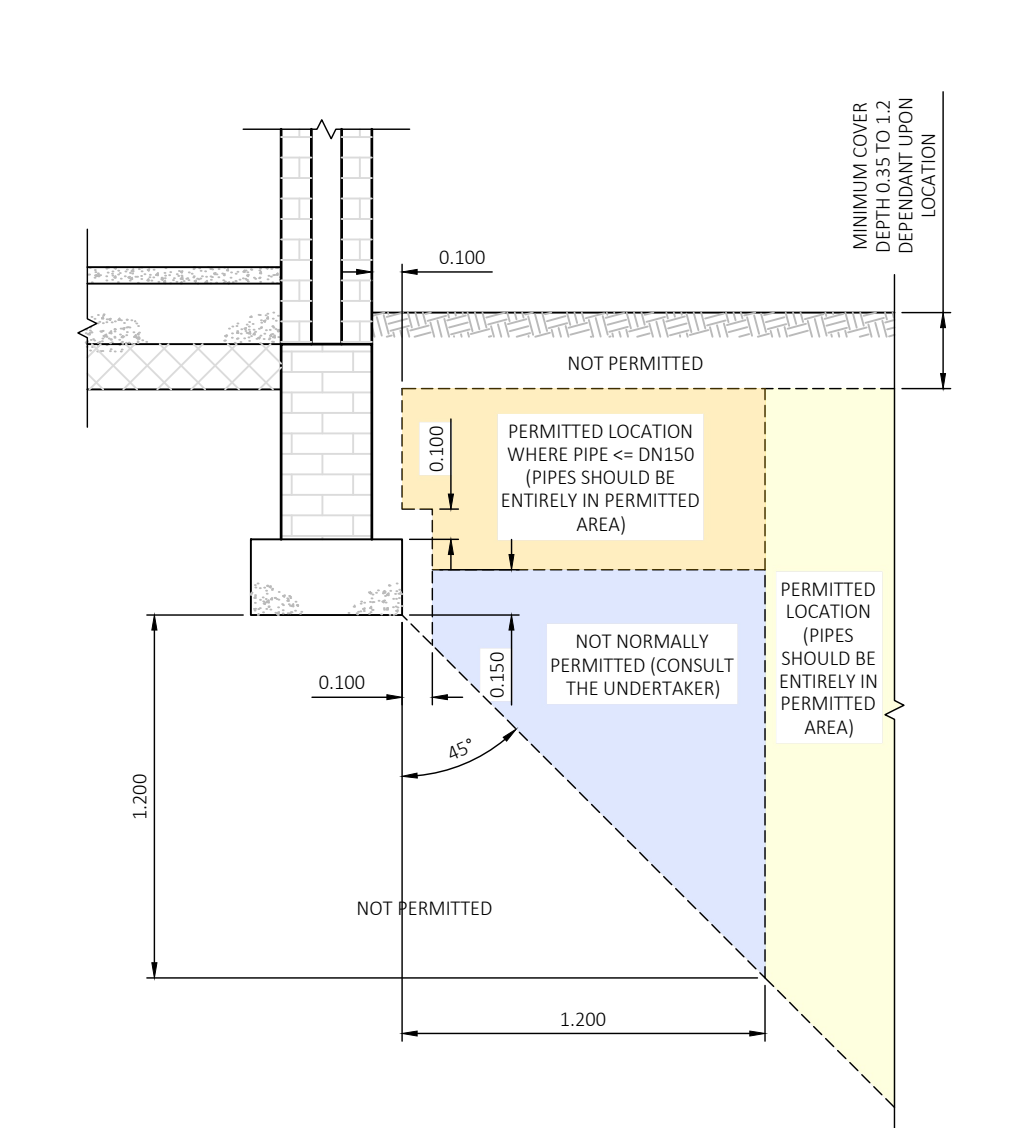
Filename: Y:\26000-26999\26911- Princess Royal Theatre Refurbishment\01_WIP\08_Drawing\026C03-HYD-53-CXX-D-C-05000 - Drainage Construction Details.dwg



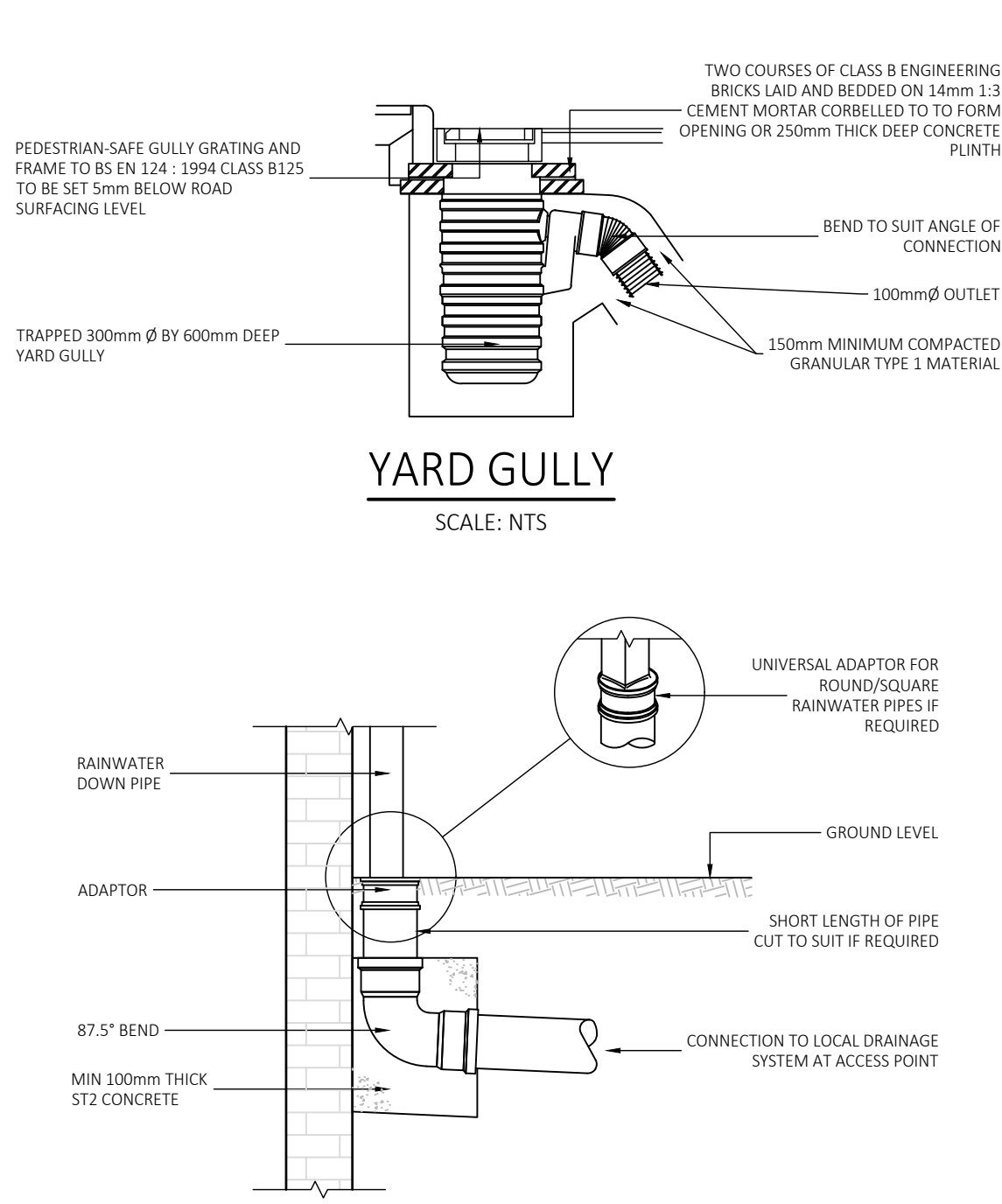
PRECAST CONCRETE MANHOLE - PLAN



BRICKSLOT LINEAR DRAIN ADJACENT TO STRUCTURE



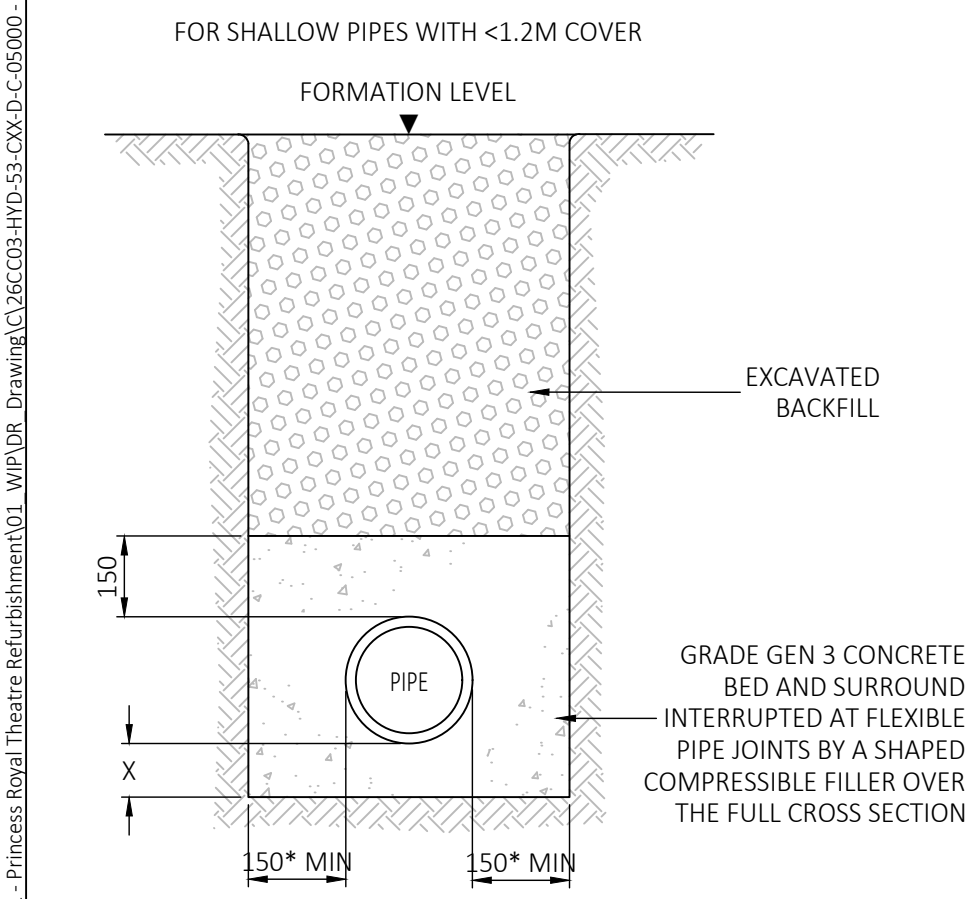
PERMITTED LOCATION OF SEWERS AND LATERAL DRAINS IN PROXIMITY TO BUILDING



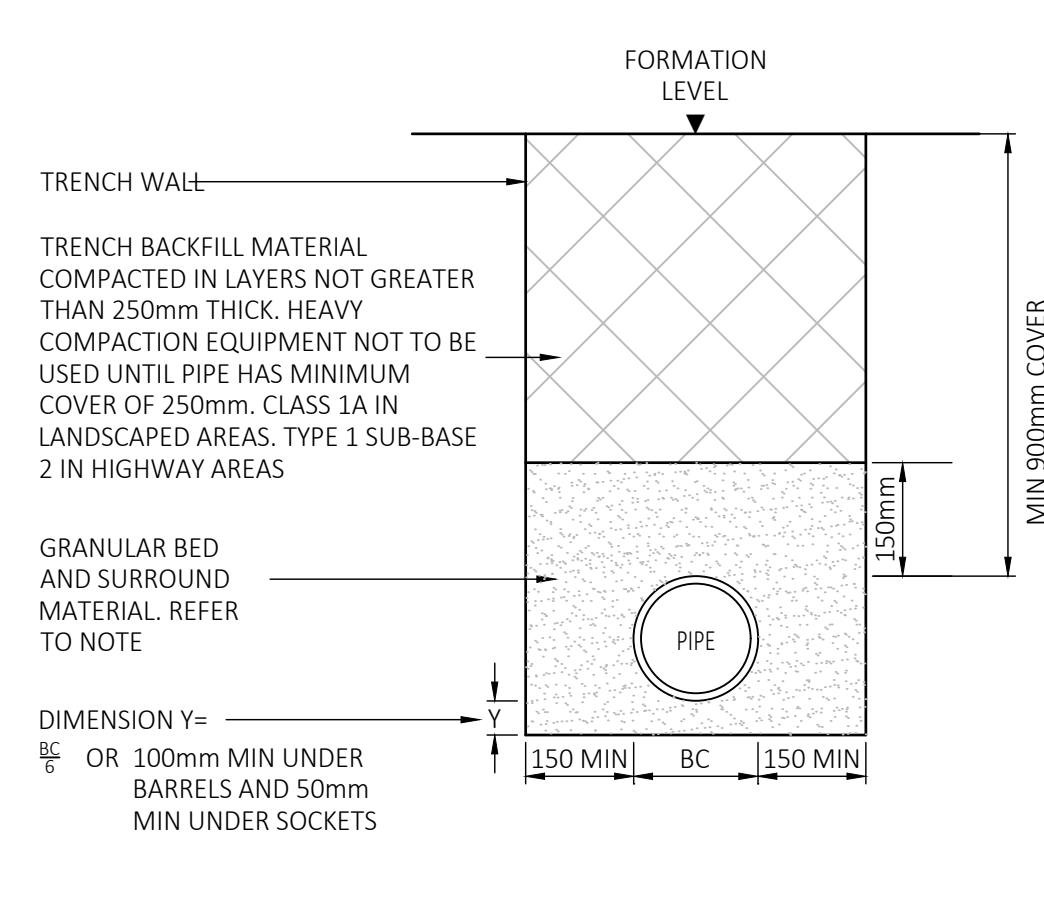
TYPICAL DIRECT RAINWATER PIPE CONNECTION

LOAD CLASS		A15	B125	C250	D400
MINIMUM DIMENSION (mm)	X	100	150	150	200
	Z	100	150	150	200
MAXIMUM DIMENSION (mm)	Y1	100	60	60	60
	Y2	35	35	35	35

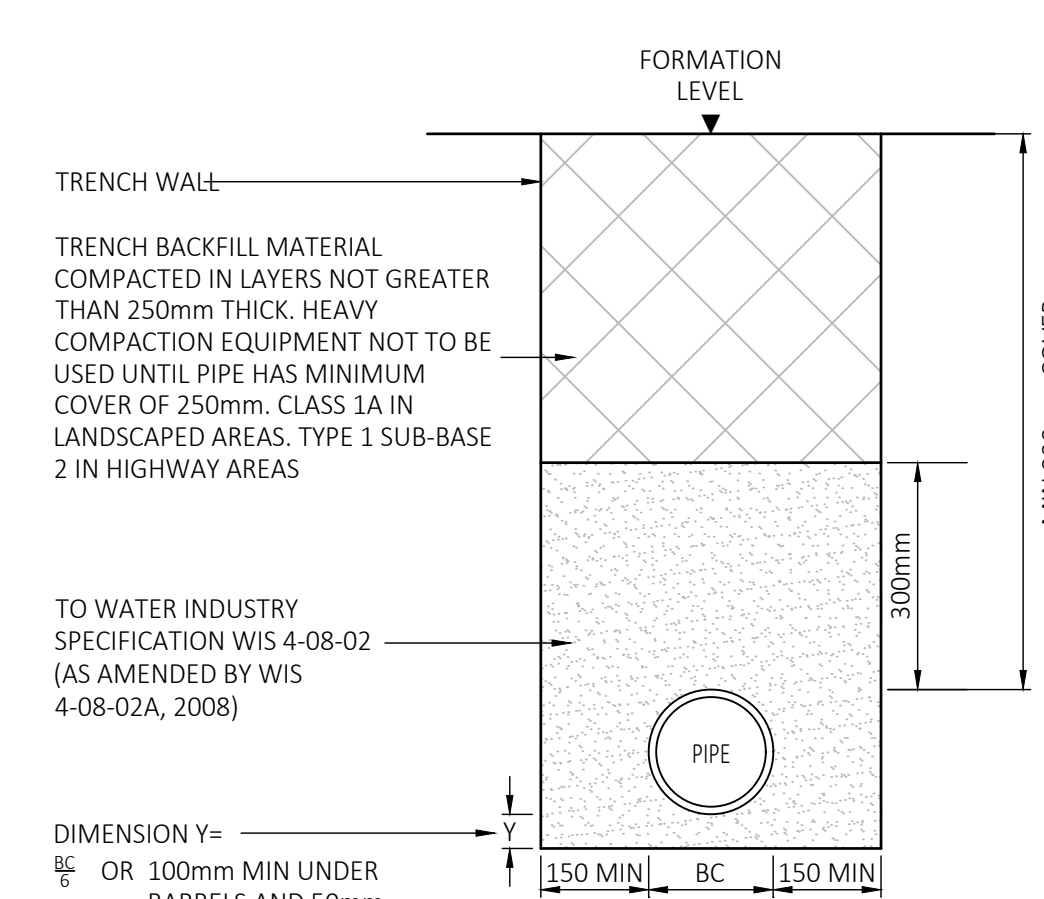
CONCRETE BED AND SURROUND DIMENSIONS FOR VARYING LOAD CLASSES



PIPE BEDDING DETAIL CLASS Z



PIPE BEDDING DETAIL CLASS S



PIPE BEDDING DETAIL CLASS P

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.

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 NOTES

- DO NOT SCALE**
- NOTES:
- DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT PROJECT DRAWINGS AND WITH THE HEALTH AND SAFETY INFORMATION PROVIDED AND/OR WITHIN THE PRE-CONSTRUCTION INFORMATION.
 - USE OF THIS DRAWING DOES NOT ABSOLVE THE CLIENT FROM HIS RESPONSIBILITIES UNDER THE HEALTH AND SAFETY: THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015. THE PRINCIPAL DESIGNER IS REQUIRED TO CONTACT HYDROCK CONSULTANTS PRIOR TO PERMITTING THIS DRAWING TO BE USED IN CONNECTION WITH ANY CONSTRUCTION WORKS.
 - BEFORE COMMENCEMENT OF ANY WORKS ASSOCIATED WITH THE DRAWING REFER TO ALL RELEVANT HEALTH AND SAFETY INFORMATION FOR THE WORKS INCLUDING RESIDUAL RISK INFORMATION.
 - THE CONTRACTOR SHOULD COMPLY WITH HS(G) 47 "AVOIDING DANGER FROM UNDERGROUND SERVICES" WHEN PLANNING, LOCATING AND EXCAVATING AROUND EXISTING SERVICES. IT IS KNOWN THAT EXISTING UTILITY COMPANY UNDERGROUND SERVICES AND APPARATUS ARE PRESENT WITHIN THE PROPOSED WORKS AREA AND IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE EXISTING SERVICES ON SITE ACCURATELY.
 - INFORMATION REGARDING THE LOCATION AND DEPTH OF EXISTING SERVICES CANNOT BE GUARANTEED BY THE STATUTORY UNDERTAKER.
 - THE CONTRACTOR SHALL CONDUCT THE WORKS WITH DUE REGARD FOR THE ECOLOGICAL AND ENVIRONMENTAL REQUIREMENTS OF THE SCHEME.
 - THE DRAWING SHALL BE USED FOR THE INTENDED PURPOSE ONLY AND THIS DRAWING HAS BEEN BASED ON INFORMATION PROVIDED BY OTHER PARTIES AND HYDROCK DO NOT WARRANT THE ACCURACY OF THIS INFORMATION. DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS AND LEVELS ON SITE FOR THE ACTUAL SETTING OUT OF THE WORKS. DIMENSIONS MARKED 'DIMENSIONS TO BE SITE CHECKED' ARE SUBJECT TO CONFIRMATION BY THE CONTRACTOR BEFORE THE WORKS COMMENCE.
 - HYDROCK IS NOT RESPONSIBLE FOR CHECKING DIMENSIONS ON SITE.
 - HYDROCK IS NOT RESPONSIBLE FOR SETTING OUT GRID LINES, BUILDING LINE ETC.
 - HYDROCK IS NOT RESPONSIBLE FOR DIMENSIONS USED IN THE ORDERING AND MANUFACTURING OF EQUIPMENT AND THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL FIGURED LEVELS ARE IN METRES AND RELATED TO EXISTING SURVEY GRID & DATUM UNLESS NOTED OTHERWISE.
 - ALL FIGURED DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - TEMPORARY WORKS DESIGN ASSOCIATED WITH THE CONSTRUCTION OF THE WORKS SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL MAINTAIN FREE AND OPEN ACCESS TO PUBLIC HIGHWAY AND ADJACENT LANDS AT ALL TIMES DURING THE COURSE OF THE WORKS UNLESS OTHERWISE AGREED IN WRITING WITH THE INTERESTED PARTIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL TRAFFIC MANAGEMENT PROPOSALS & PHASING. SUCH DETAILS SHALL BE SUBMITTED TO THE LOCAL HIGHWAY AUTHORITY FOR APPROVAL PRIOR TO THE START OF THE WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND ORDERS. CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.

REVISIONS				
P01	First Issue	14/10/24	FA	PR KG
Rev.	Revision Notes	Date	Drawn By	Checked Approved
Hydrock now Stantec			3rd Floor, Wharton Place 13 Wharton Street Cardiff CF10 1GS t: +44(0)2920 023665 e: cardiff@hydrock.com	
CLIENT				
NEATH PORT TALBOT COUNCIL MORGAN SINDALL				
PROJECT				
PRINCESS ROYAL THEATRE AND PUBLIC REALM WORKS				
TITLE				
DRAINAGE CONSTRUCTION DETAILS CIVIC SQUARE				
HYDROCK PROJECT NO. C-26911		SCALE @ A1 NTS		
STATUS DESCRIPTION SUITABLE FOR INFORMATION				STATUS S2
DRAWING NO. 26CC03-HYD-53-CXX-D-C-05000				REVISION P01