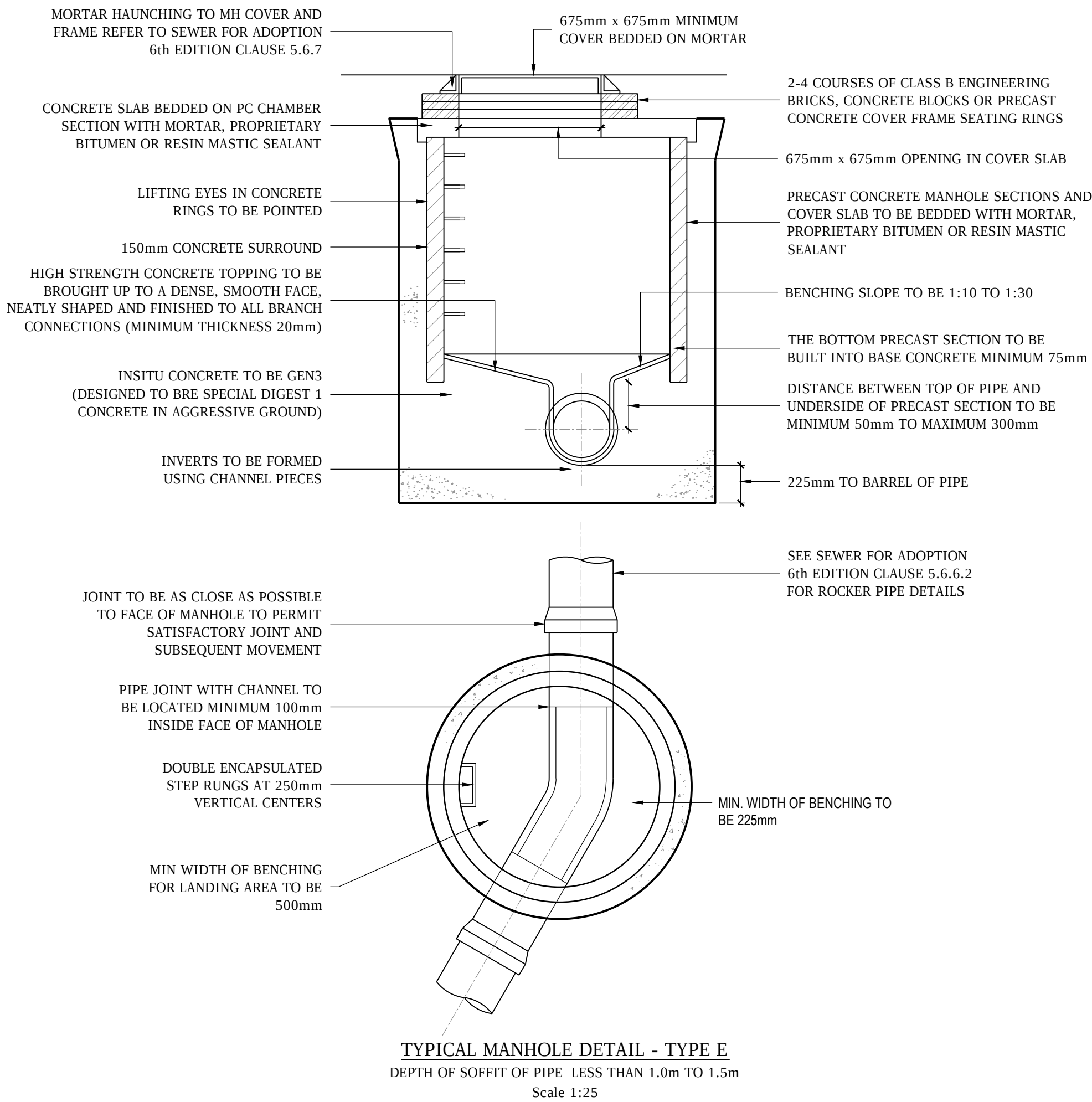
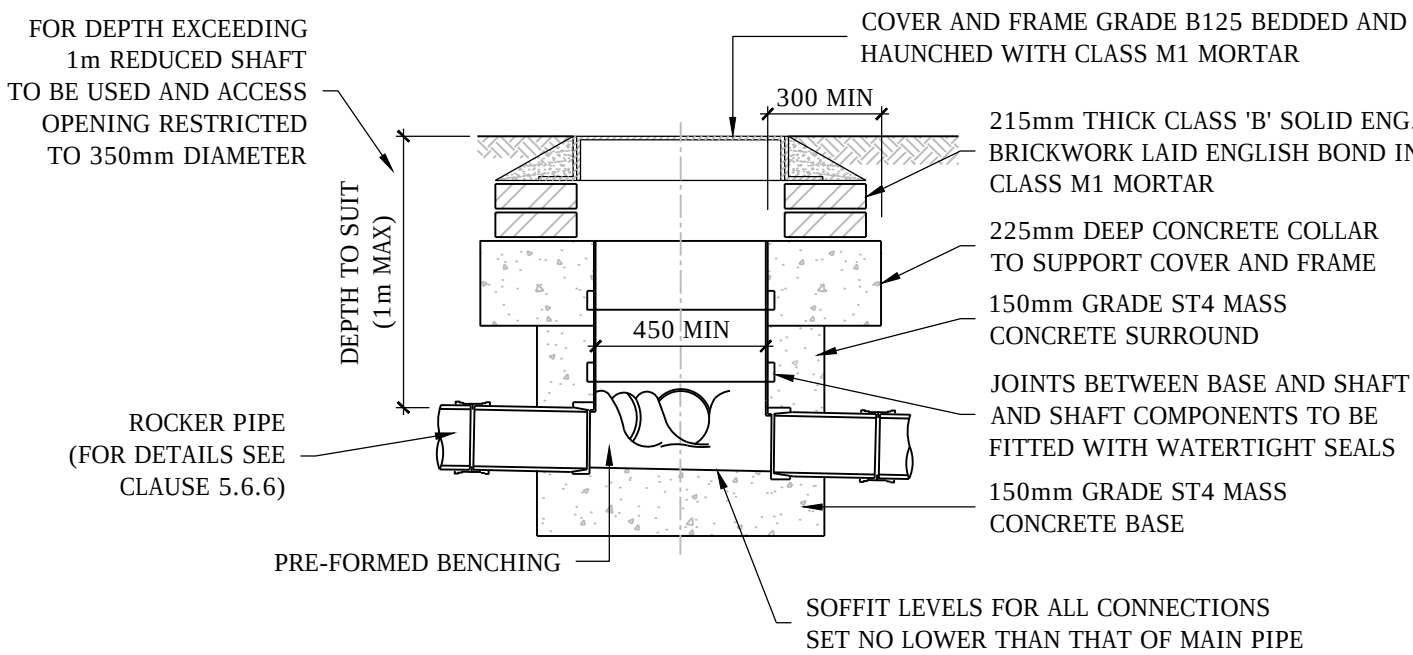
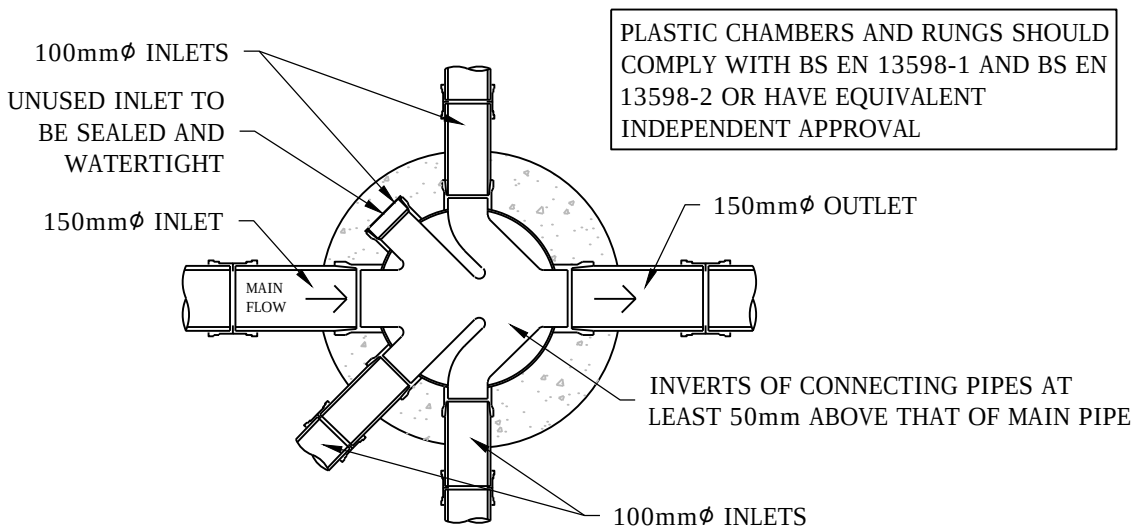
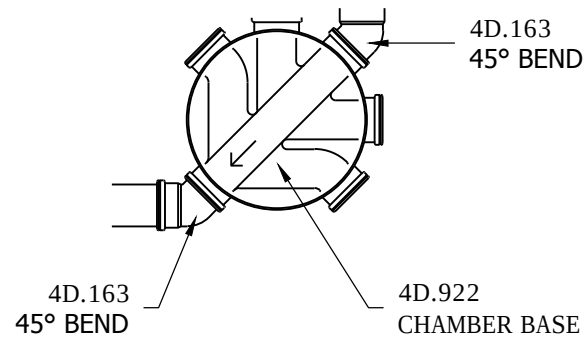
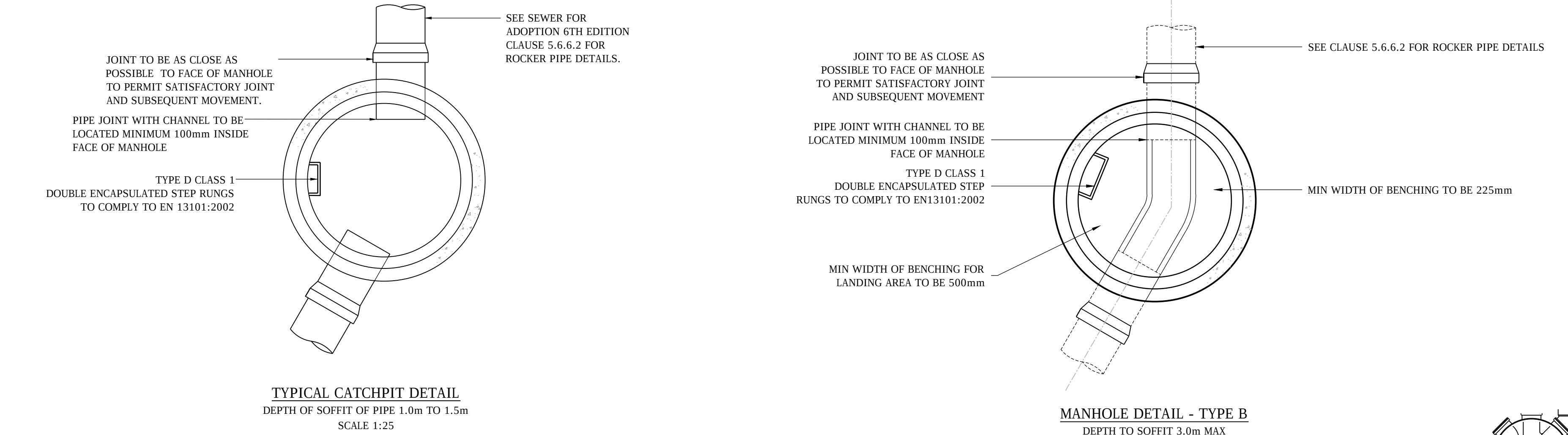
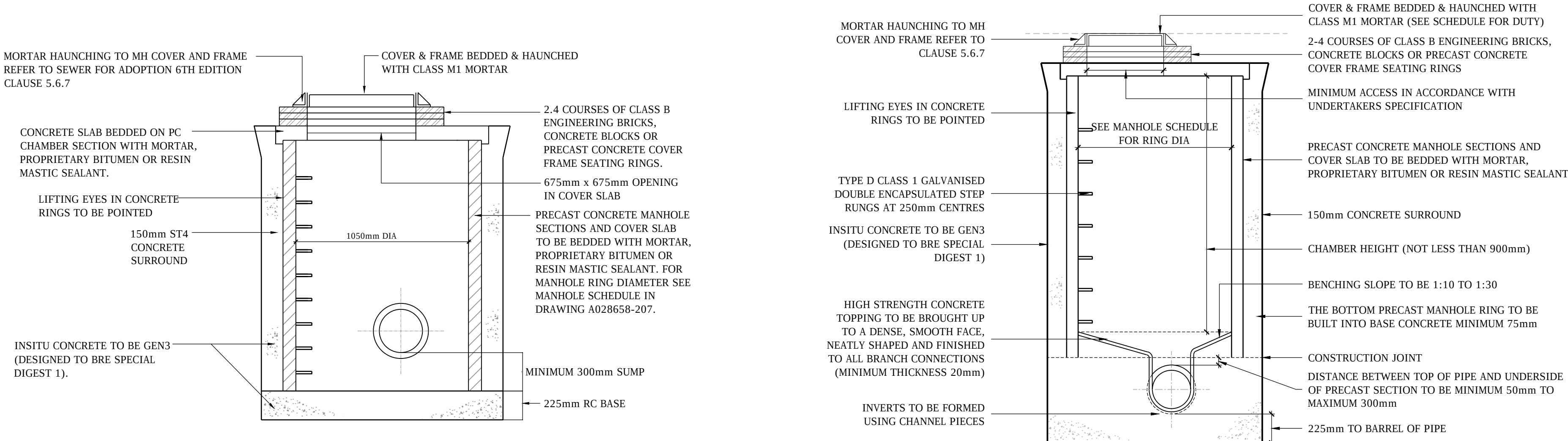


NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST SUB-CONTRACTORS DRAWINGS AND THE SPECIFICATION.
- ALL SETTING OUT TO BE IN ACCORDANCE WITH THE SCHEDULES. ANY DISCREPANCIES BETWEEN THE ENGINEERS AND THE ARCHITECTS DRAWINGS TO BE REFERRED TO THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS MUST NOT BE SCALED.
- ALL DRAINAGE IS TO BE IN ACCORDANCE WITH BS EN 752-4 AND ALL RELEVANT SECTIONS OF APPROVED DOCUMENT H OF THE BUILDING REGULATIONS (2002 EDITION).
- WHERE DRAINAGE PIPEWORK IS PLASTIC i.e. PVC-U IT SHALL BE TO BS EN 1401-1 (CLASS SN4) OSMA OR EQUIVALENT.
- WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 600mm TO FORM A ROCKER PIPE.
- WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, LINTELS ARE TO BE PROVIDED.
- WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH.
- WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES/SEWERS, INVERT LEVELS, PIPE SIZES AND ORIENTATION SHOULD BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.
- WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE ST4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINTS.
- 'EFFECTIVE COVER' IS THE MINIMUM DEPTH OF COVER OVER THE PIPE CROWN AT ANY TIME DURING THE CONSTRUCTION PROCESS.
- THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORK AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO OVERSITE FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.
- THE TOP RUN OF EACH FOUL DRAINAGE NETWORK IS TO BE LAID TO FALLS NO SLACKER THAN 1:40. THE HEAD OF EACH RUN IS TO BE VENTED TO ATMOSPHERE IN ACCORDANCE WITH APPROVED DOCUMENT H.
- ALL SURFACE WATER DRAINAGE TO BE MIN 150mm DIA. AND ALL FOUL WATER DRAINAGE TO BE MIN 100mm DIA. UNLESS STATED OTHERWISE.
- THE CONTRACTOR IS TO ENSURE THAT ALL PIPEWORK CONNECTIONS ARE ARRANGED TO DIRECT FLOWS DOWN OR INTO THE MAIN CHANNEL IN THE DIRECTION OF THE MAIN FLOW. WHERE NECESSARY 3/4 BENDS ARE TO BE USED ON OBLIQUE CONNECTIONS INSIDE THE MANHOLE BENCHING WHERE SUFFICIENT ROOM EXISTS OR THE PIPELINES ON OBLIQUE CONNECTIONS ARE ARRANGED OUTSIDE THE CHAMBER TO BE ABLE TO DIVERT FLOWS DOWN THE MAIN CHANNEL. CONNECTIONS BROUGHT IN PERPENDICULAR TO THE MAIN CHANNEL ARE NOT ACCEPTABLE. WHERE POSSIBLE THE MAIN CHANNEL FLOW SHALL BE FROM ANY CONNECTIONS WITH WC'S TO ENSURE A FLUSH THROUGH THE MAIN CHANNEL IS ACHIEVED.
- THE CONTRACTOR IS TO ENSURE THAT WHEN PREFORMED POLYPROPYLENE MANHOLE BASES ARE USED, THAT THEY ARE ORIENTATED SUCH THAT THE MAIN FLOW IS THROUGH THE MAIN CHANNEL OF THE BASE. THIS SHOULD BE ACHIEVED BY INCORPORATING LONG RADIUS BENDS OUTSIDE OF THE MANHOLE.
- ANY CONNECTION INTO A PUBLIC SEWER IS TO BE INSPECTED BY THE LOCAL WATER AUTHORITY AND CARRIED OUT FULLY IN ACCORDANCE WITH THEIR REQUIREMENTS. THE CONTRACTOR IS TO ALLOW FOR OBTAINING THE APPROPRIATE 'CONNECTION TO A PUBLIC SEWER' FORMS AND PAYING ALL NECESSARY FEES.
- THE CONTRACTOR IS TO ALLOW FOR OBTAINING THE APPROPRIATE ROAD OPENING LICENCES FROM THE LOCAL HIGHWAY AUTHORITY AND PAYING ALL NECESSARY FEES FOR ANY WORKS ASSOCIATED WITH OFF-SITE SEWER CONNECTIONS. ALL REINSTATEMENT WORKS WITHIN THE PUBLIC HIGHWAY ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HIGHWAY AUTHORITY.
- THE CONTRACTORS ATTENTION IS DRAWN TO THE NEED TO ENSURE THAT ANY TRENCHES EXCAVATED THROUGH PREVIOUSLY COMPACTED FILLED AREAS, IN PARTICULAR UNDER THE BUILDING FOOTPRINT AND IMMEDIATELY AROUND THE OUTSIDE, ARE RE-COMPACTED TO ENSURE LOCALISED DIFFERENTIAL SETTLEMENT DOES NOT OCCUR.

GENERAL NOTES

- DO NOT SCALE.** ALL DIMENSIONS ARE IN MILLIMETRES
- THE CONTRACTOR SHOULD SITE CHECK ALL EXISTING DIMENSIONS SHOWN. ANY DISCREPANCIES ON THIS DRAWING IDENTIFIED BY THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER **PRIOR** TO CONSTRUCTION ON SITE
- THE CONTRACTOR SHALL CONFORM TO ALL STATUTORY AUTHORITY REQUIREMENTS, CHECKING WITH THE EMPLOYER/CLIENT TO IDENTIFY BOTH BELOW GROUND AND OVERHEAD SERVICES. CONTRACTOR TO FULLY COMPLY WITH ALL CDM, H&S AND PARTY WALL ACTS THAT ARE CURRENT. ALL BS REFERENCES ARE TO CURRENT EDITIONS.
- ALL TEMPORARY WORKS FOR FORMWORK, EXCAVATIONS ETC., TO BE THE DESIGN RESPONSIBILITY OF THE CONTRACTOR.
- ALL LEVELS ARE IN METRES (A.O.D.)



PRELIMINARY ISSUE

REV	DESCRIPTION	BY	CHK	APP	DATE
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Client:

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Project:

EASTERN COMMAND CUSTODY FACILITY

Drawing Title:

TYPICAL DRAINAGE DETAILS
SHEET 1

Scale @	A1	Drawn	Date	Checked	Date	Approved	Date
As Shown		RJ	29.09.16	CD	29.09.16	AJ	29.09.16
Project No.		Office	Type	Drawing No.		Revision	
A095257		51	C	302		-	