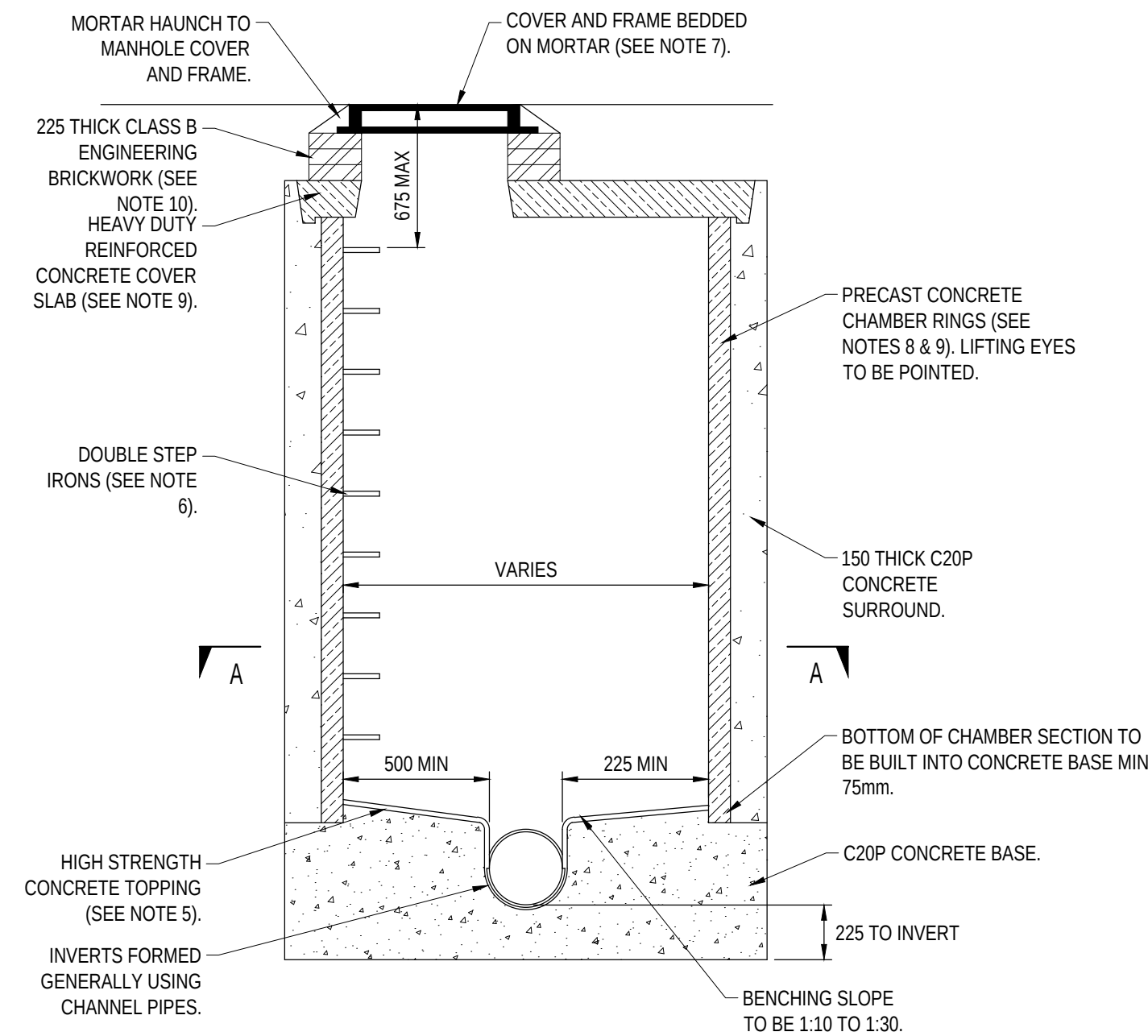
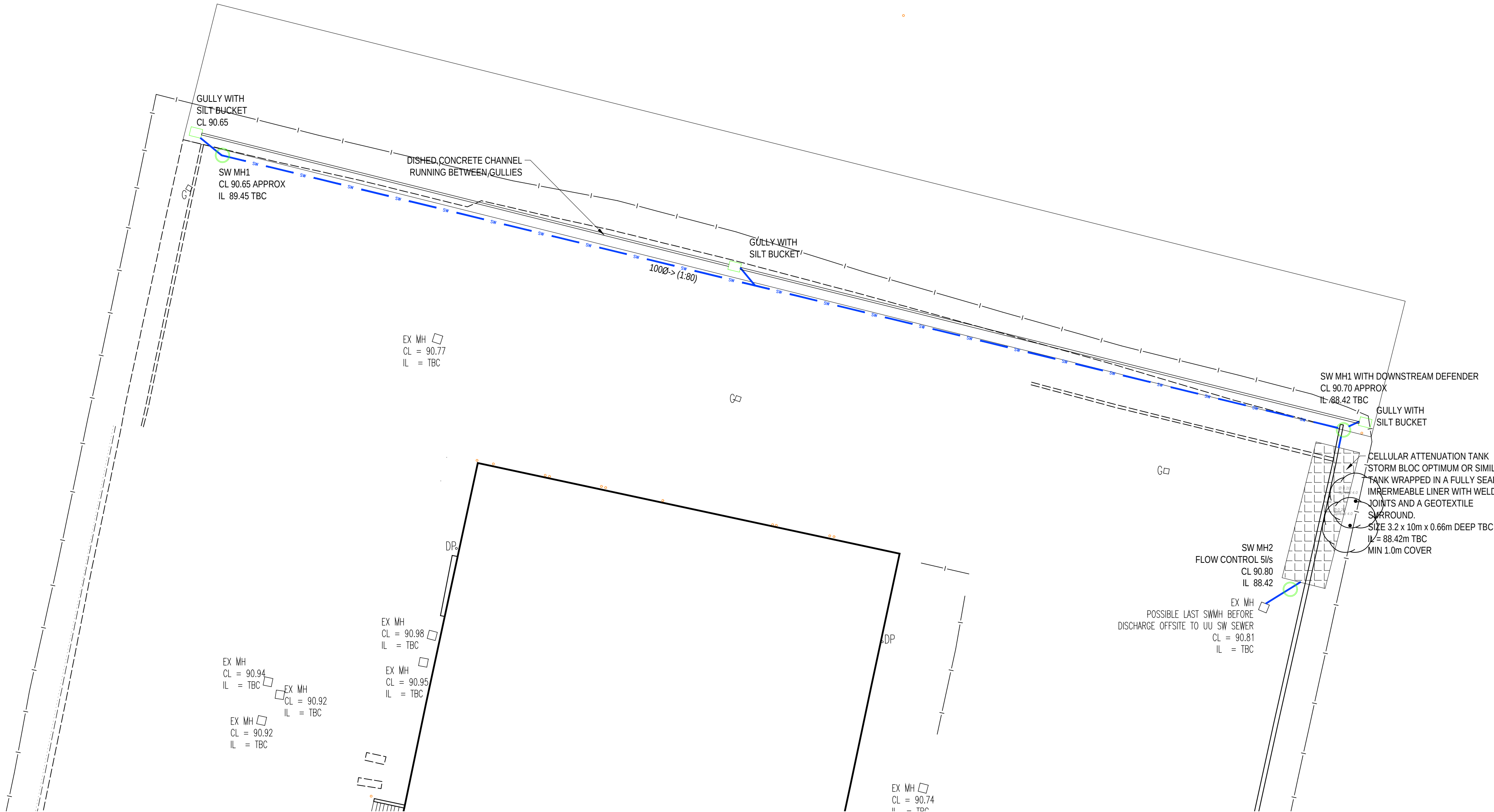
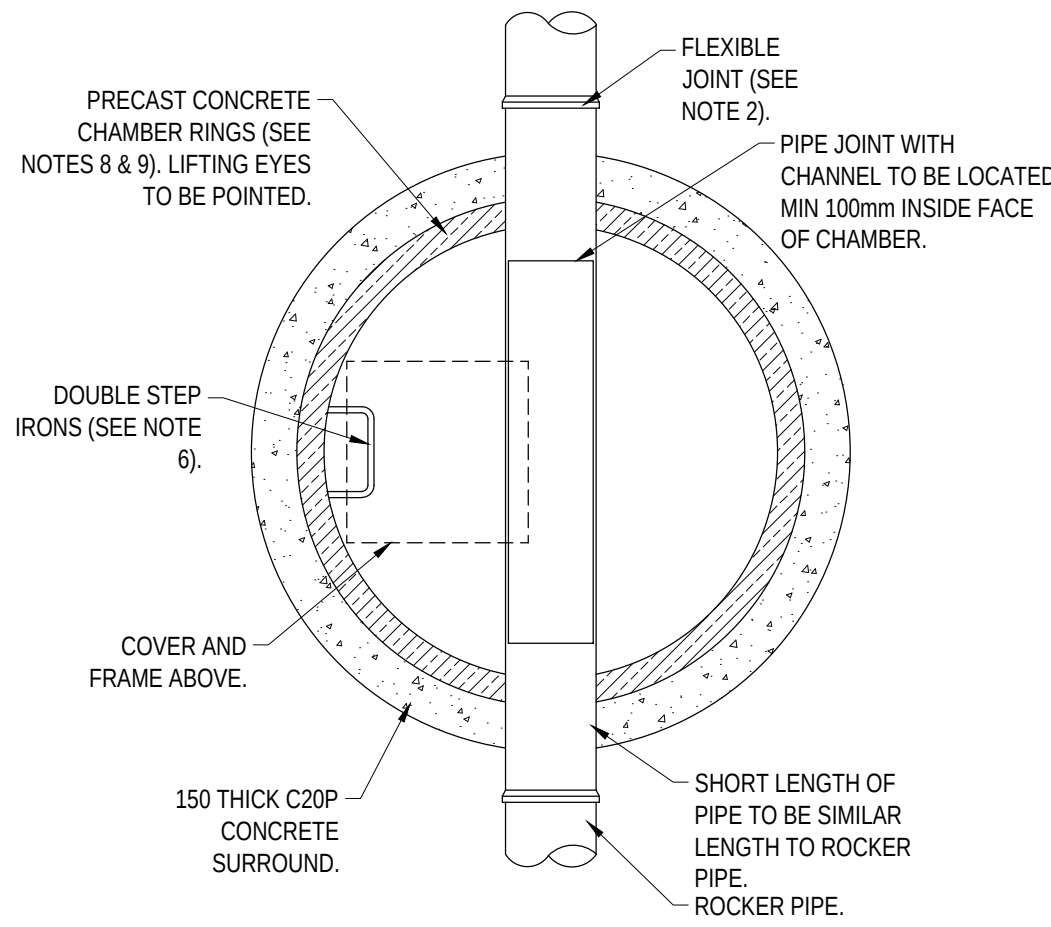
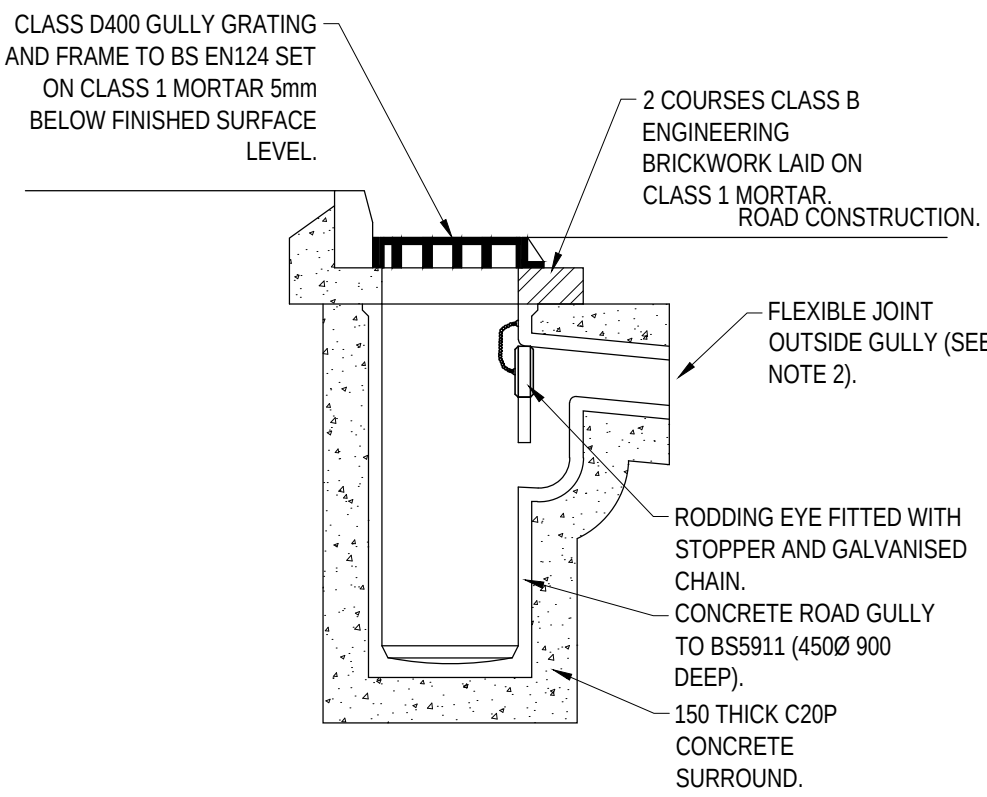




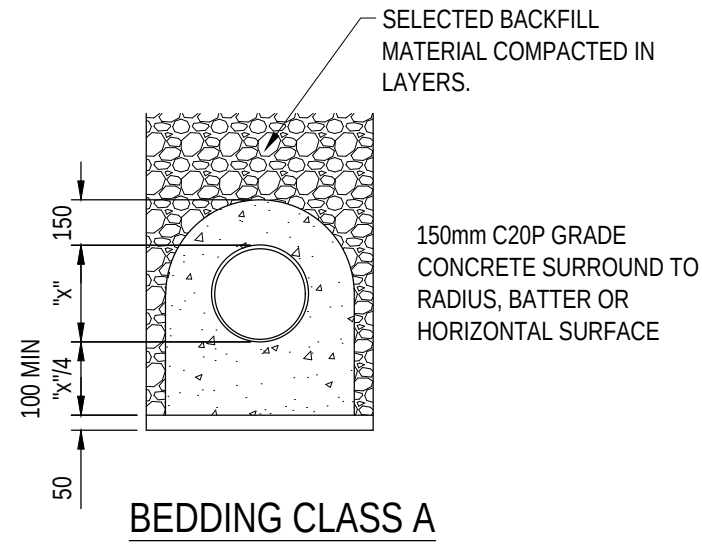
TYPICAL MANHOLE DETAIL (1.2m TO 3.0m DEEP)
DEPTH = INVERT OF PIPE TO TOP OF COVER
SCALE 1:25



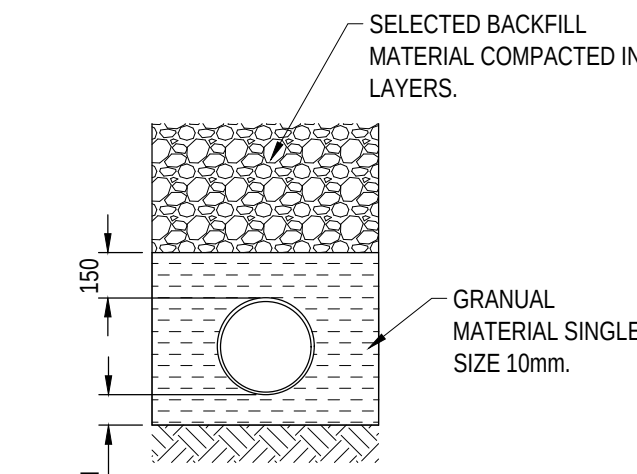
SECTION A-A
SCALE 1:25



TYPICAL ROAD GULLY
SCALE 1:25



BEDDING CLASS A



BEDDING CLASS S

FEASIBILITY ONLY

- DRAINAGE NOTES:
- MANHOLE CONSTRUCTION TO BE WATERTIGHT.
 - FLEXIBLE JOINTS OUTSIDE MANHOLES, STRUCTURES ETC. PIPES UP TO AND INCLUDING 450 DIA.
1st FLEXIBLE JOINT 150 FROM OUTSIDE FACE OF MANHOLE/STRUCTURE
2nd FLEXIBLE JOINT 600 FROM 1st FLEXIBLE JOINT (ROCKER PIPE).
 - WHERE PIPES ARE ENTERING A MANHOLE AT AN ANGLE, A SLOW RADIUS BEND IS TO BE USED. THE BEND SHALL BE BUILT INSIDE THE MANHOLE.
 - ALL CONCRETE AND CONCRETE PRODUCTS SHALL SATISFY SULPHATE CLASS DS-4, AND THE ACEC CLASS IS AC-2s.
 - HIGH STRENGTH (GRANOLITHIC) CONCRETE TOPPING TO BE BROUGHT UP TO A DENSE SMOOTH FACE NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS (MIN THICKNESS 20mm). GRADIENT OF BENCHING TO BE 1:10 TO 1:30.
 - STEP IRONS TO BE MILD OR STAINLESS STEEL PLASTIC ENCAPSULATED DOUBLE STEPS TO BS1247 PART 2 AND WIS 4-33-01.
 - MANHOLE COVERS TO BE:
CLASS B125 = PEDESTRIAN AREAS
CLASS D400 = CAR PARK/HGV/SERVICE YARD
 - ALL PRECAST CONCRETE MANHOLE UNITS ARE TO CONFORM TO BS5911 PART 200.
 - ALL PRECAST CONCRETE SLABS AND RINGS SHALL BE BEDDED OR JOINTED USING MORTAR, PROPRIETARY BITUMEN OR RESIN MASTIC SEALANT.
 - LEVELLING OF COVER TO BE ACHIEVED USING CLASS 'B' ENGINEERING OR SPECIAL PURPOSE CONCRETE BRICKWORK (4 COURSES MAX, 2 COURSES MIN).
 - ALL PRODUCTS AND MATERIALS SHALL BE 'KITEMARKED' OR HAVE VERIFICATION OF COMPLIANCE WITH THE RELEVANT BRITISH STANDARD
 - PIPE WORK TO BE EITHER CLAY OR PLASTIC.
 - BEDDING TO BE TYPE 'S' GRANULAR SURROUND (150 THICK).
 - MANHOLES TO BE CONSTRUCTED IN CLASS 'B' ENGINEERING BRICKS OR PRECAST CONCRETE RINGS.
 - ROAD GULLIES TO BE 4500 x 900 DEEP PRECAST CONCRETE TO COMPLY WITH BS5911 PART 230 SURROUNDED BY 150mm THICK CONCRETE.
 - 150mm THICK CONCRETE SURROUND TO BE PROVIDED TO PIPE WORK WHERE COVER TO CROWN IS LESS THAN 800mm.
 - ALL PIPE WORK UNDER BUILDINGS TO HAVE 150mm THICK CONCRETE SURROUND.
 - RAINWATER PIPES TO FALL DIRECTLY INTO A REST BEND.

GENERAL NOTES

- This drawing is copyright and the property of Waterman Structures and is not to be copied in whole or in part except under a written agreement.
- Do not scale this drawing; any discrepancy is to be reported to the Engineer immediately.
- This drawing is to be read in conjunction with all Engineers, Architects or other relevant drawings and specifications.
- All dimensions and levels are to be checked on site by the Contractor prior to preparing any working drawings or commencing on site.
- The Contractor must ensure and will be held responsible for the overall stability of the building/structure/excavation at all stages of the work.
- All work by the contractor must be carried out in such a way that all requirements under the health and safety at work act are satisfied.
- All work is to be carried out in compliance with the requirements of the relevant statutory authorities and regulations.

LEVELS, LAYOUT AND CONNECTION TO EX DRAINAGE SYSTEM ALL SUBJECT TO CCTV SURVEY OF EX DRAINS AND RECORDING OF THEIR LEVELS.

P01	SO	06.06.22	PART OF FEASIBILITY STUDY	CS	CS
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Status	Date	Description	By	CHK
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Amendments

Project

DX BURY

Title

DRAINAGE PLAN

Client

DX GROUP



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

Subsidiary	INITIAL STATUS (WIP)	SO
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Designed By	Director	SP	Waterman Ref
CS			STR17708

Drawn By	Date	June 22	Scale	@ A1	1:200; 1:25
CS					

Project	Originator	Volume	Level	Type	Role	Number	Revision
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STR17708-WSL-ZZ-ZZ-DR-C-(03)001	P01						
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