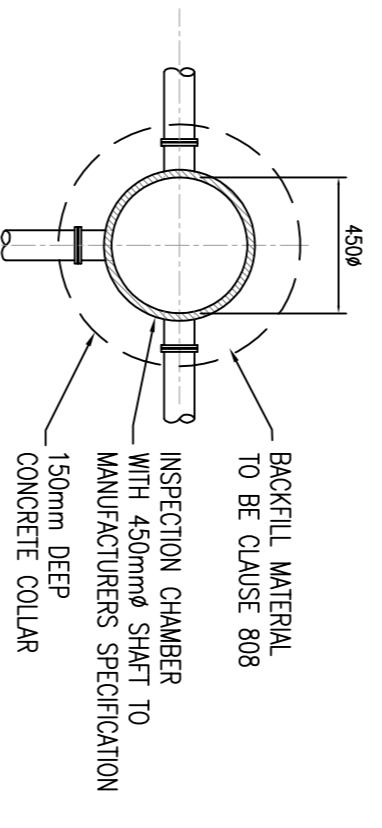
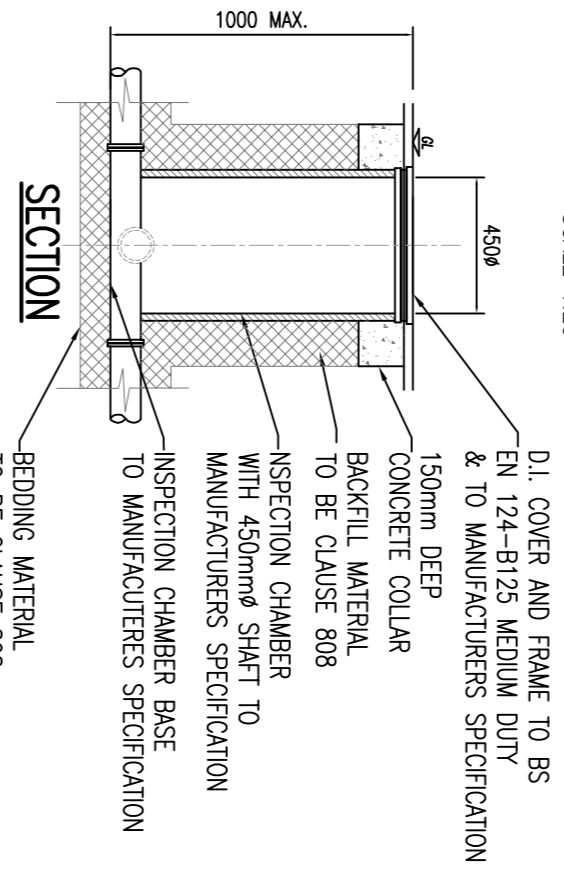


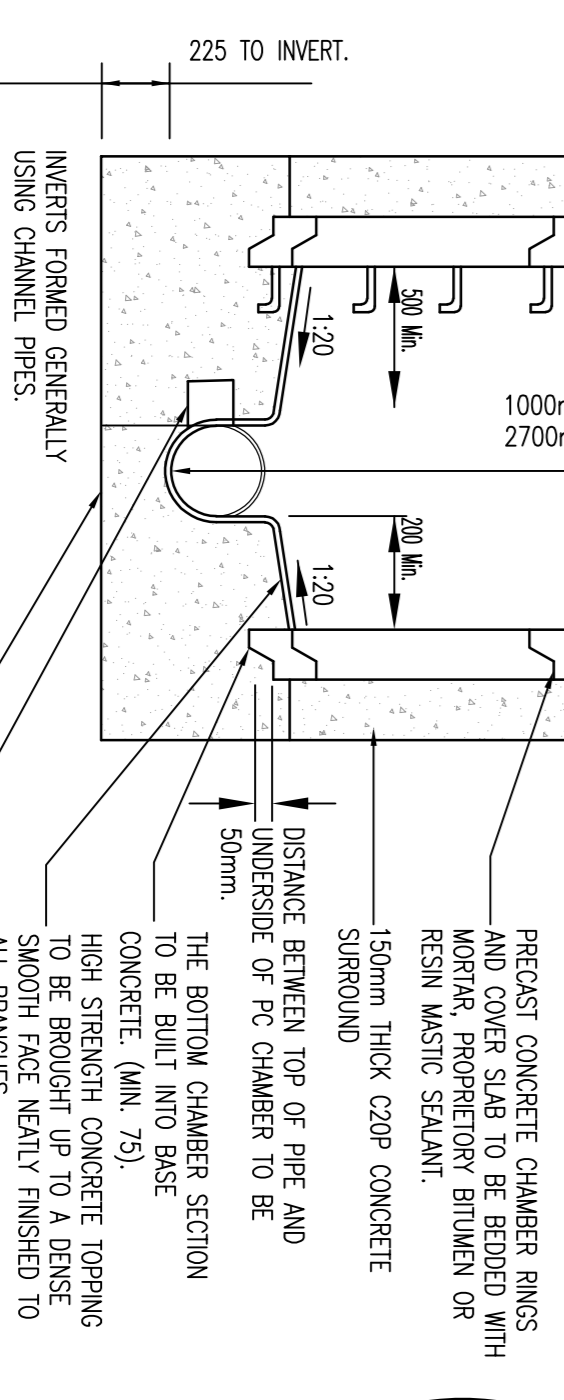
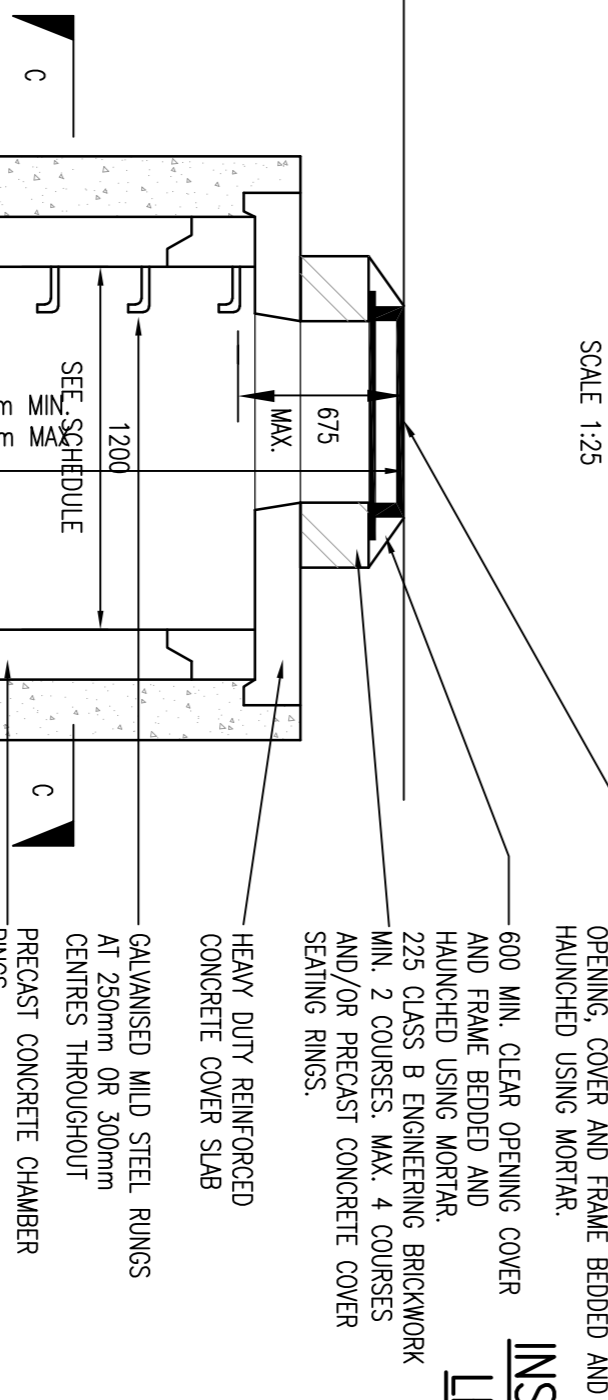
**CIRCULAR INSPECTION CHAMBER WHERE INVERT IS 0.6m OR LESS**  
**BUILDING REGULATIONS TGD SECTION**

H TABLE 9



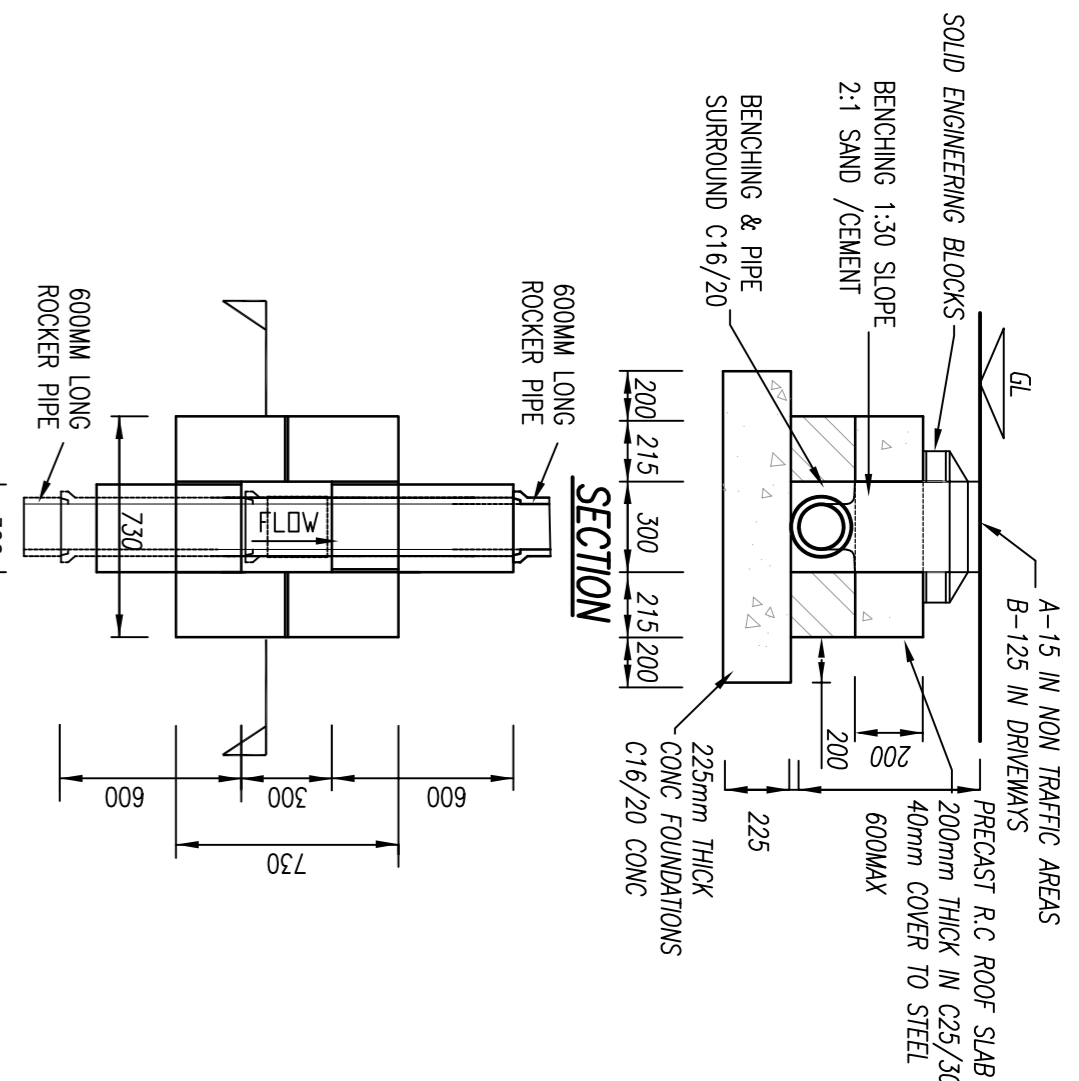
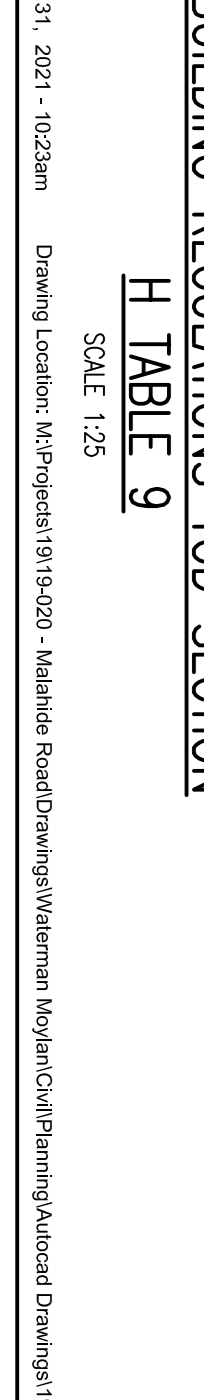
**CIRCULAR INSPECTION CHAMBER WHERE INVERT IS 1m OR LESS**  
**BUILDING REGULATIONS TGD SECTION**

H TABLE 9



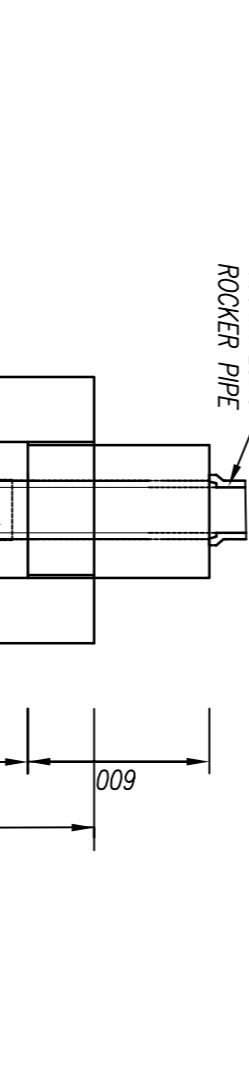
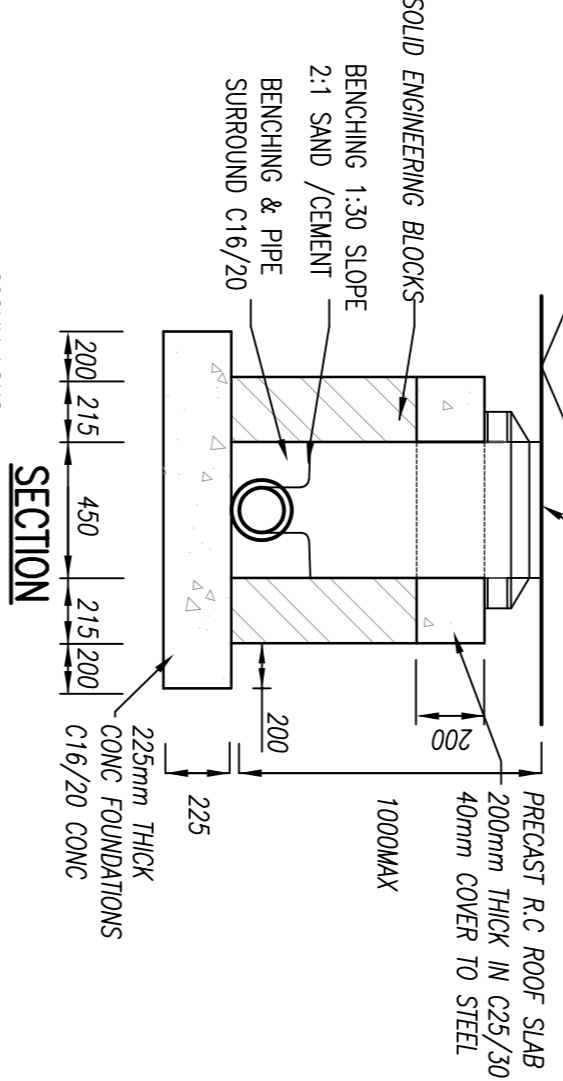
**CIRCULAR MANHOLE WHERE INVERT IS BETWEEN 1m AND 2.7m**  
**BUILDING REGULATIONS TGD SECTION**

H TABLE 9



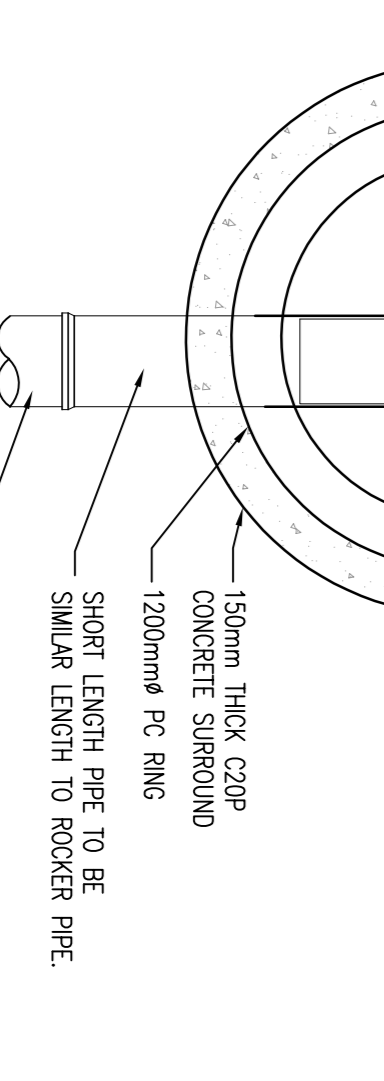
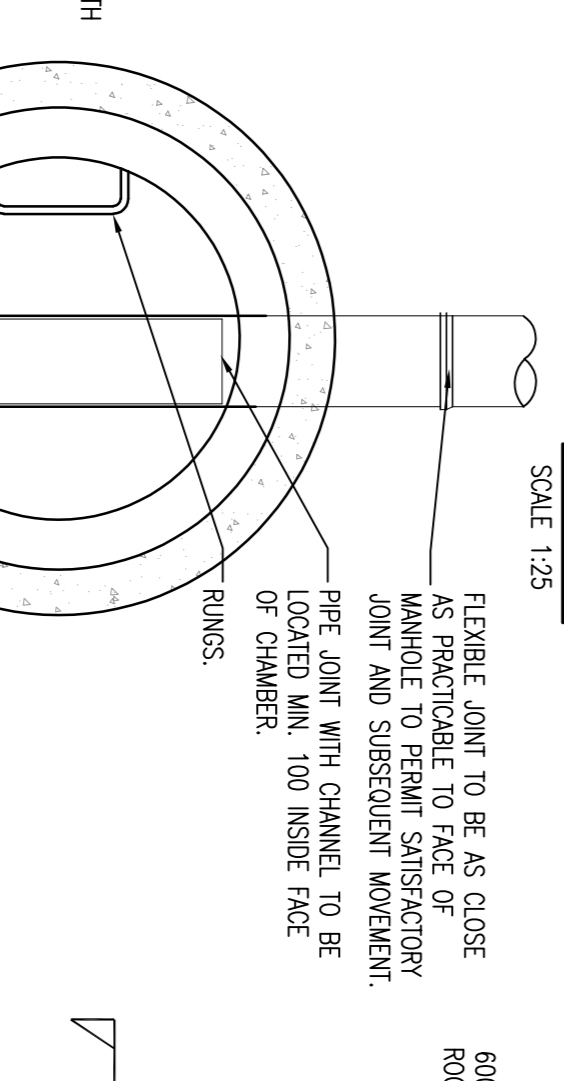
**INSPECTION CHAMBER WHERE INVERT IS 0.6m OR LESS**  
**BUILDING REGULATIONS TGD SECTION H TABLE 9**

SCALE 1:25



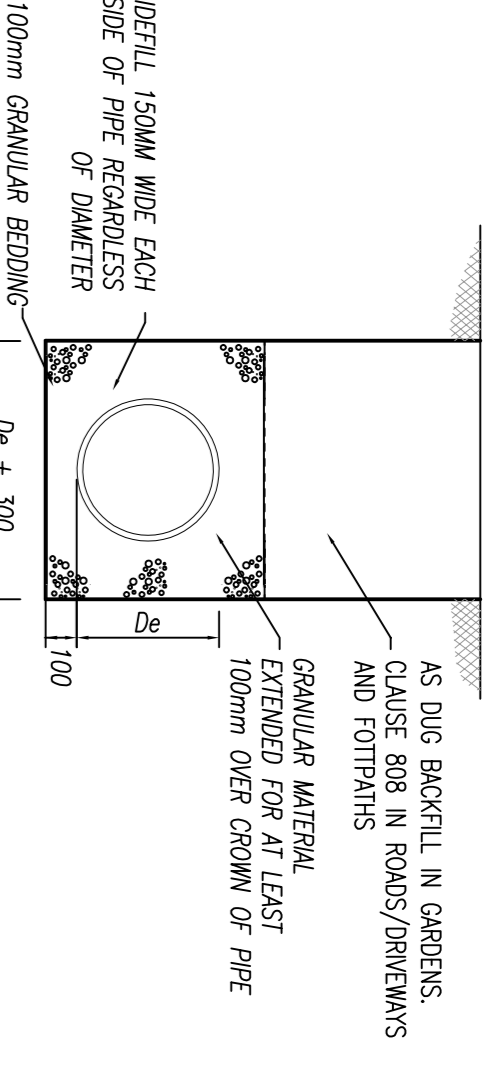
**INSPECTION CHAMBER WHERE INVERT IS 1m OR LESS**  
**BUILDING REGULATIONS TGD SECTION H**

TABLE 9



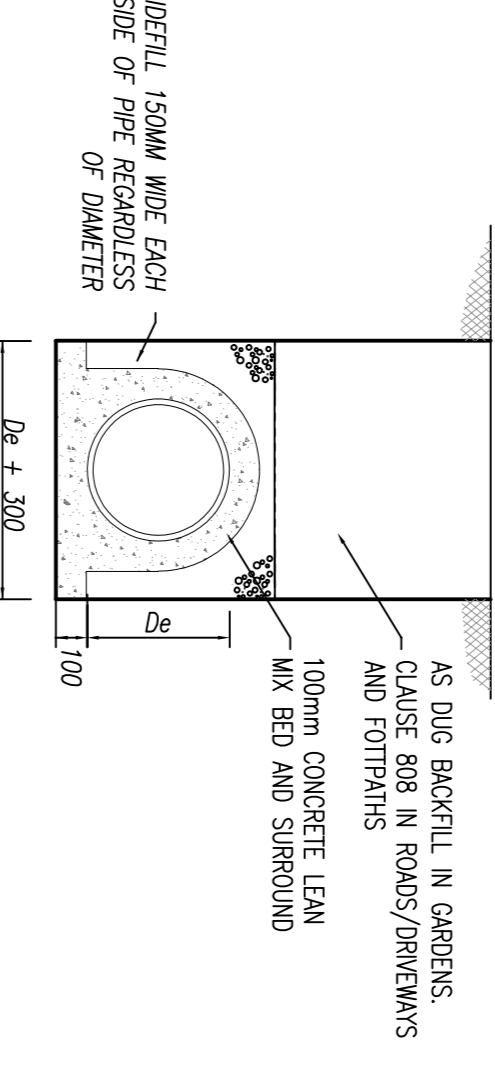
**MANHOLE DEPTH TO INVERT IS BETWEEN 1m AND 2.7m**  
**BUILDING REGULATIONS TGD SECTION**

H TABLE 9



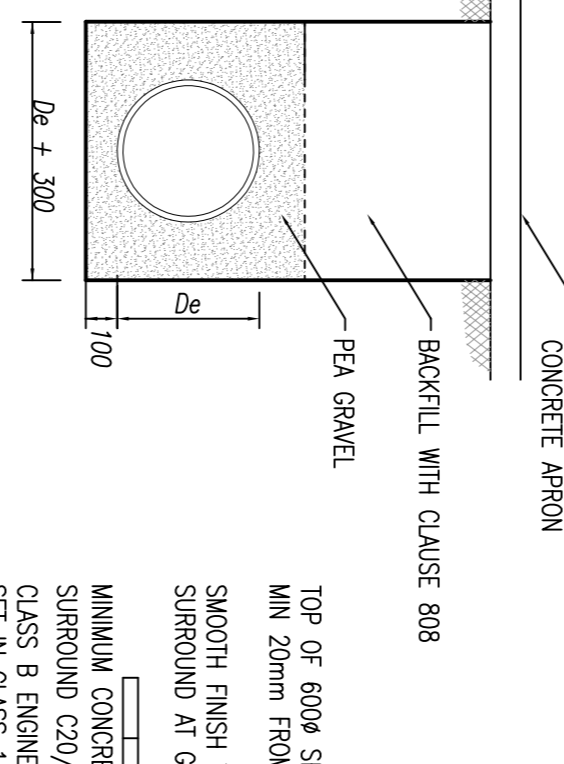
**PIPES BEDDED IN GRANULAR MATERIAL**  
**COVER > 0.9m IN ROADS**  
**COVER > 0.6m IN GARDENS**

SCALE 1:25



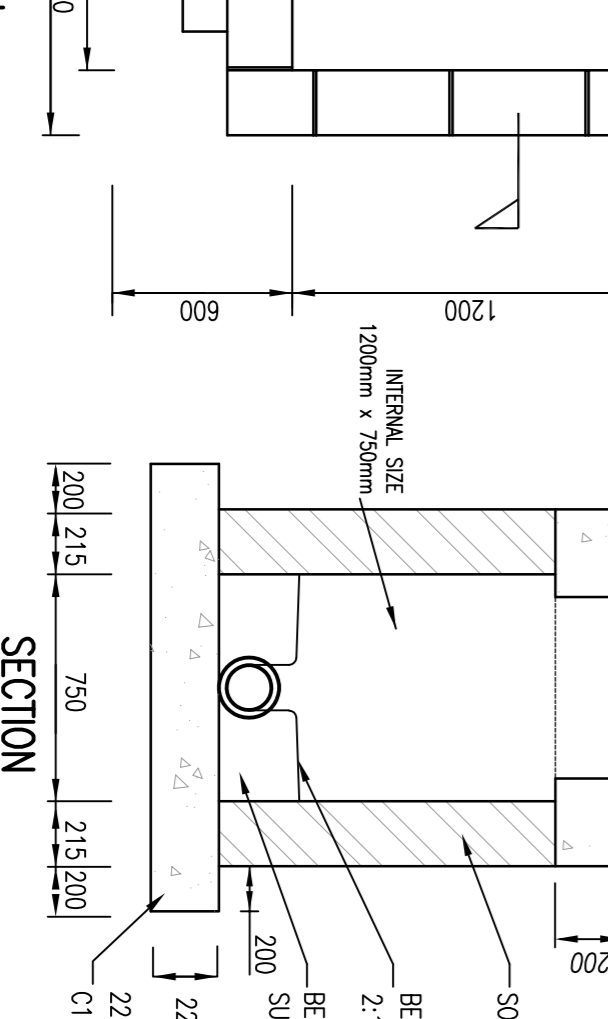
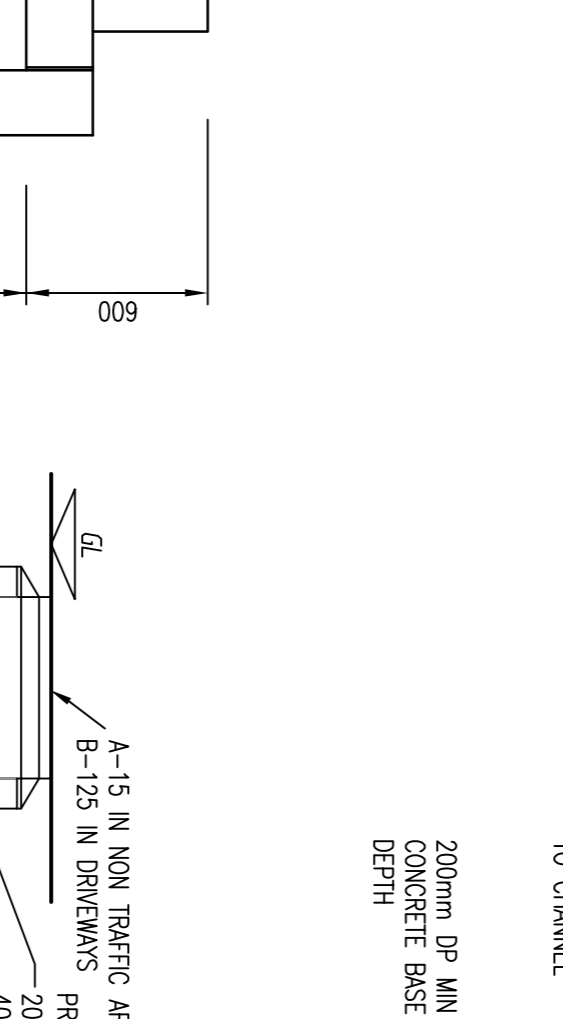
**PIPES BEDDED IN CONCRETE**  
**COVER < 0.9m IN ROADS**  
**COVER < 0.6m IN GARDENS**

SCALE 1:25



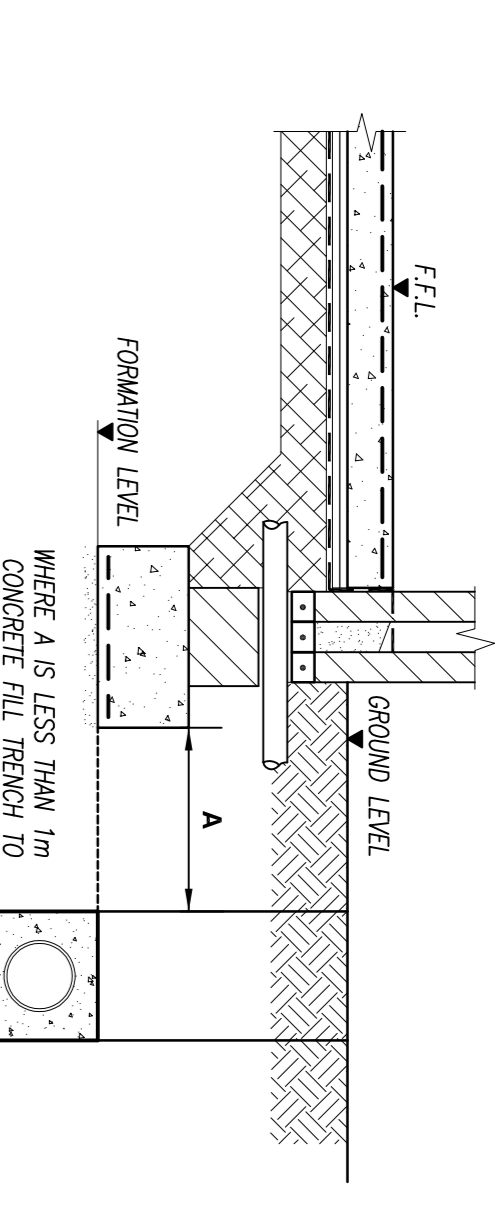
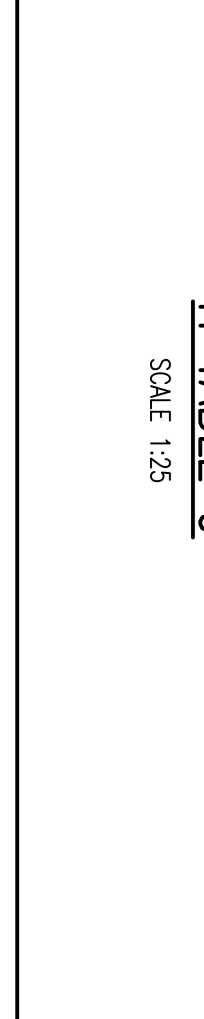
**PIPES BEDDING ALTERNATIVE DETAIL**  
**COVER < 0.9m IN ROADS**  
**COVER < 0.6m IN GARDENS**

SCALE 1:25



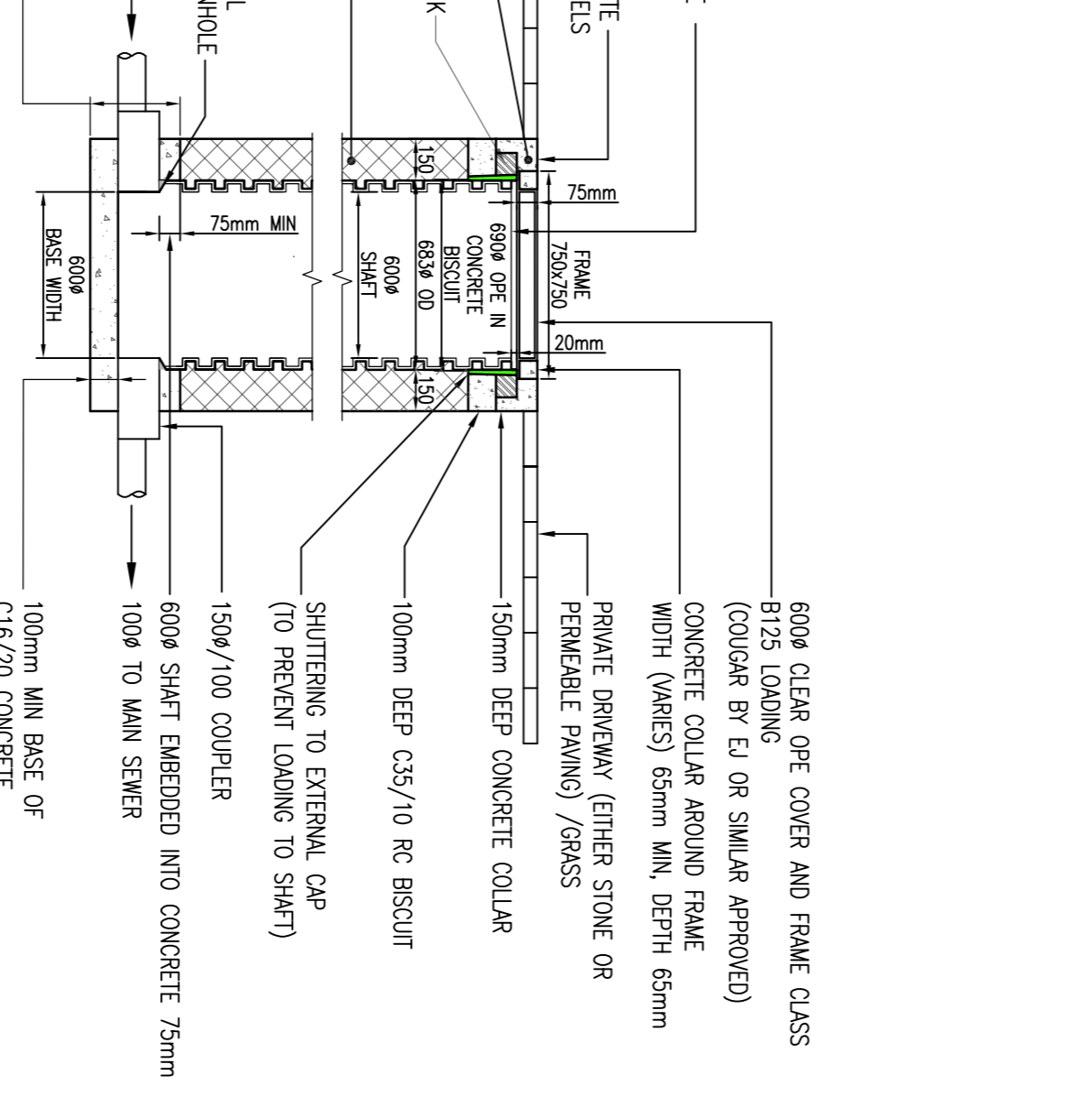
**MANHOLE DEPTH TO INVERT IS BETWEEN 1m AND 2.7m**  
**BUILDING REGULATIONS TGD SECTION**

H TABLE 9



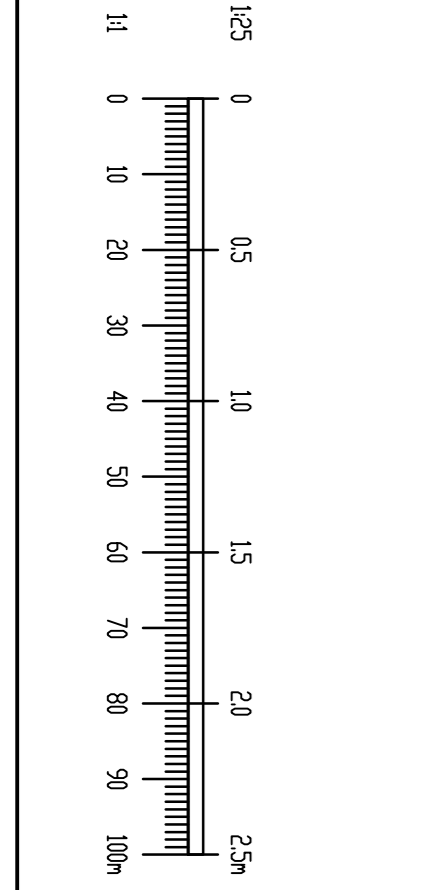
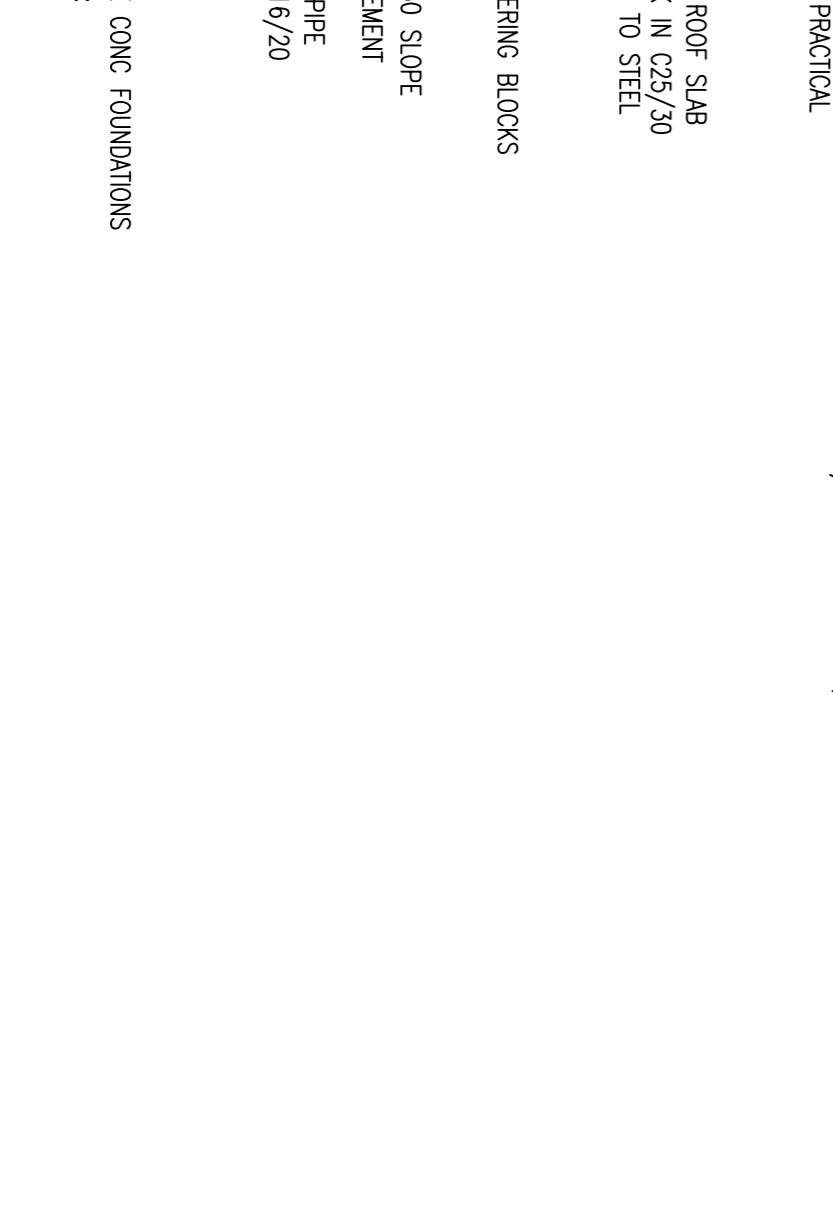
**TYPICAL DETAIL WHERE PIPE RUNS NEAR BUILDINGS**

SCALE 1:25



**FOUL WATER INSPECTION CHAMBER FOR LAST PRIVATE MANHOLE**

SCALE 1:25



- NOTES:**
1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
  2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
  3. TYPE A GRANULAR FILL SHALL CONSIST OF WASHED PFA GRAVEL. ALL MATERIAL SHALL PASS A 19mm B.S. SIEVE TEST AND SHALL BE REMOVED BY A 4.75mm B.S. SIEVE TEST.
  4. SELECTED FILL SHALL BE FREE FROM STONES GREATER THAN 25mm IN SIZE. BUILDERS SHOULD REMOVE VEGETABLE MATTER AND LIMBS OF CLAY GREATER THAN 75mm IN SIZE AND SHALL BE COMPACTED IN 150mm LAYERS.
  5. IN OPEN SPACES BACKFILL SHALL CONSIST OF SUITABLE SELECTED EXCAVATED MATERIAL. UNDER PAVED AREAS BACKFILL SHALL CONSIST OF SUITABLE APPROVED GRANULAR FILL. GENERAL BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK.
  6. CONCRETE BED AND SURROUND SHALL BE USED ON ALL PIPES WHERE COVER TO THE SURF OF THE PIPE IS LESS THAN 1.2m IN ROADS, FOOTPATHS AND GRASS MARKS AND 0.9m IN OPEN SPACES AND FIELDS.
  7. ALL CONCRETE FOR PIPE BEDDING, HAUNCHING AND SURROUNDS SHALL BE GRADE 20/M/20.
  8. ALL MANHOLES SHALL BE WATER TIGHT TO THE SATISFACTION OF THE ENGINEER.
  9. FRAMEWORK TO REINFORCED CONCRETE AND MASS CONCRETE SHALL BE CLASS F2.
  10. CLASS U2 FINISH TO THE TOP OF SLABS. REINFORCEMENT TO SLABS TO ENGINEERS DETAILS.
  11. 200mm THICK C.L. 30/20 MASS CONCRETE FOUNDATIONS. 225mm THICK PRECAST R.C. ROOF SLAB IN C.L. 30/20 CONCRETE. COVER TO STEEL TO BE 40mm.
  12. THE HOLES TO BE PROVIDED IN BRANCHING OF SEWERS GREATER THAN 450mm DIAMETER FOR ACCESS TO INVERT. SAFETY CHAIN ON SEWERS 600mm DIA. OR GREATER AND STEEL SAFETY CHAIN SHALL BE 10MM NOMINAL SIZE GRADE WH/1 NON GALVANIZED CHAIN, TYPE 1, COMPLYING WITH BS4942 PART 2.
  13. WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.5m, LONGER SHALL BE USED. INSTEAD OF PIPES, THE LADDER SHALL BE USED. THE LADDER SHALL COMPLY WITH BS4211 EXCEPT THAT STRUNGERS SHOULD NOT BE LESS THAN 65 x 20mm IN SECTION AND RUNS 25mm IN DIAMETER.
  14. LADDER STRUNGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 3.0m. STRUNGERS SHOULD BE BOLTED TO CLEARLY IDENTIFY THE MANHOLE.
  15. ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAIN, ETC. SHALL BE HOT DIPPED GALVANIZED TO BS729.
  16. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF FINALE COUNTY COUNCIL.
  17. ACCESS JUNCTIONS TO BE USED AT DEPTHS OF 600mm OR LESS. INSPECTION CHAMBERS TO BE USED BETWEEN DEPTHS OF 600mm AND 1m.
  18. ALL WORKS TO BE ACCORDANCE WITH THE BUILDING REGULATIONS TECHNICAL GUIDANCE DOCUMENT - CURRENT VERSION.
  19. MIN COVER REQUIREMENTS IN ACCORDANCE WITH THE BUILDING REGULATIONS TGD SECTION H. REFER TO TABLES 8 AND 9 FOR COVER AND ACCESS CHAMBER REQUIREMENTS.
  20. ALL MANHOLE AND CHAMBER COVERS IN TRAFFICKED AREAS INCLUDING CARPARKS, TO BE TRAFFICKABLE.

1. ALL DIMENSIONS ARE IN MILLIMETRES (MM) UNLESS NOTED OTHERWISE.
2. AN INSPECTION CHAMBER SHOULD BE LOCATED AT OR WITHIN 1m OF THE PROPERTY BOUNDARY AT THE UPSTREAM END OF EACH SERVICE CONNECTION TO A PUBLIC SEWER OR PRIVATE DRAIN AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS.
3. ACCESS POINTS SHOULD BE LOCATED SO THAT THEY ARE ACCESSIBLE SHOULD AVOID REAR GARDENS OR ENCLOSED LOCATIONS AND THEY SHOULD NEVER BE OVERLAIN WITH SURFACE DRESSING, TOPSOIL, ETC.
4. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC LOADS AND SHALL BE 1000mm DEEP CONCRETE PLANTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
5. 200mm MINIMUM SURROUND TO ALL COVERS AND FRAMES.
6. SUBJECT TO APPROVAL FROM RESIDENTS, COVERS AND FRAMES MAY BE USED.
7. PROPERLY FABRICATED CHAMBER UNITS MAY ALSO BE USED.
8. COMPACTED CLAY OR BLENDED WITH A MINIMUM OF 150mm ON GROUND CONDITIONS WITHIN THE SITE SHOULD A DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE SHOULD A DEVELOPER BASED FROM FRESH WATER.

STATUS		
A	07/21	REMOVED FOR FINAL SUBMISSION
REV.	DATE	AMENDMENT
DRN	APPD	
PLANNING		

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**Client: KINWEST LTD.**  
**Architect: CONROY CROWE KELLY ARCHITECTS**

**Project: ALBURN, MALAHIDE, CO. DUBLIN**

TITLE: TYPICAL PRIVATE DRAINAGE CONSTRUCTION DETAILS			
DRAWN	DESIGNED	APPROVED	DATE
PJD	MD	MD	APR 20
SCALE	JOB NO.	DRG. NO.	REVISION
1:25 @ A1	19-020	P222	A