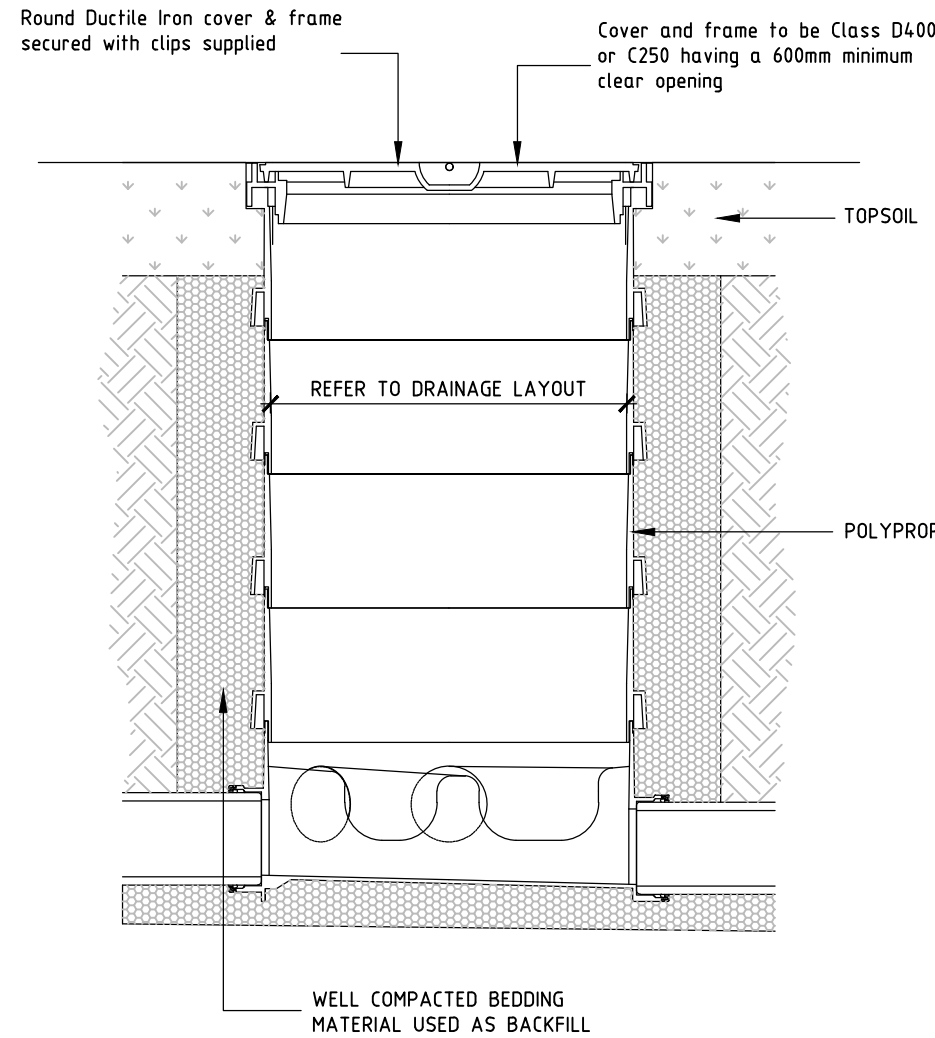
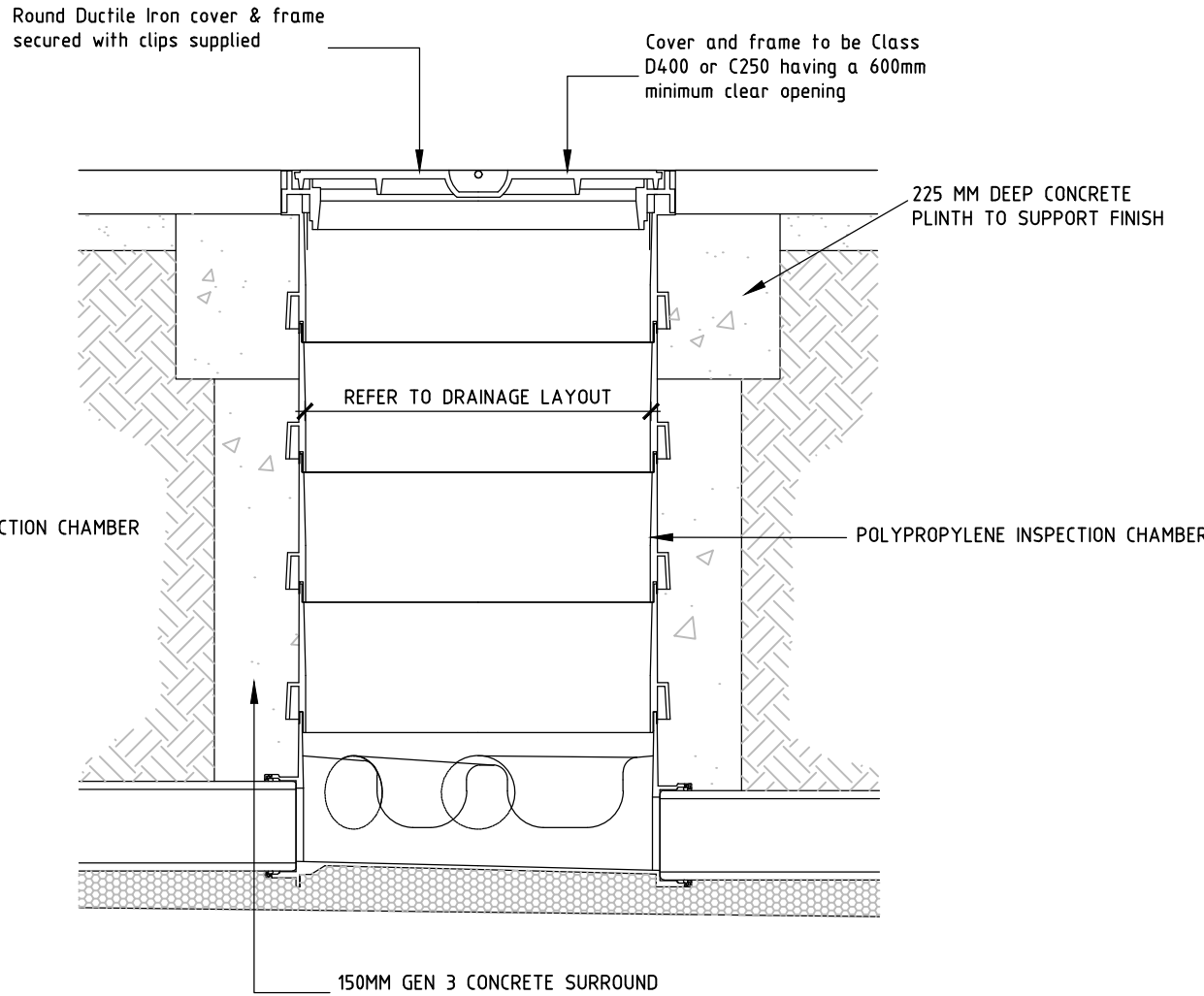


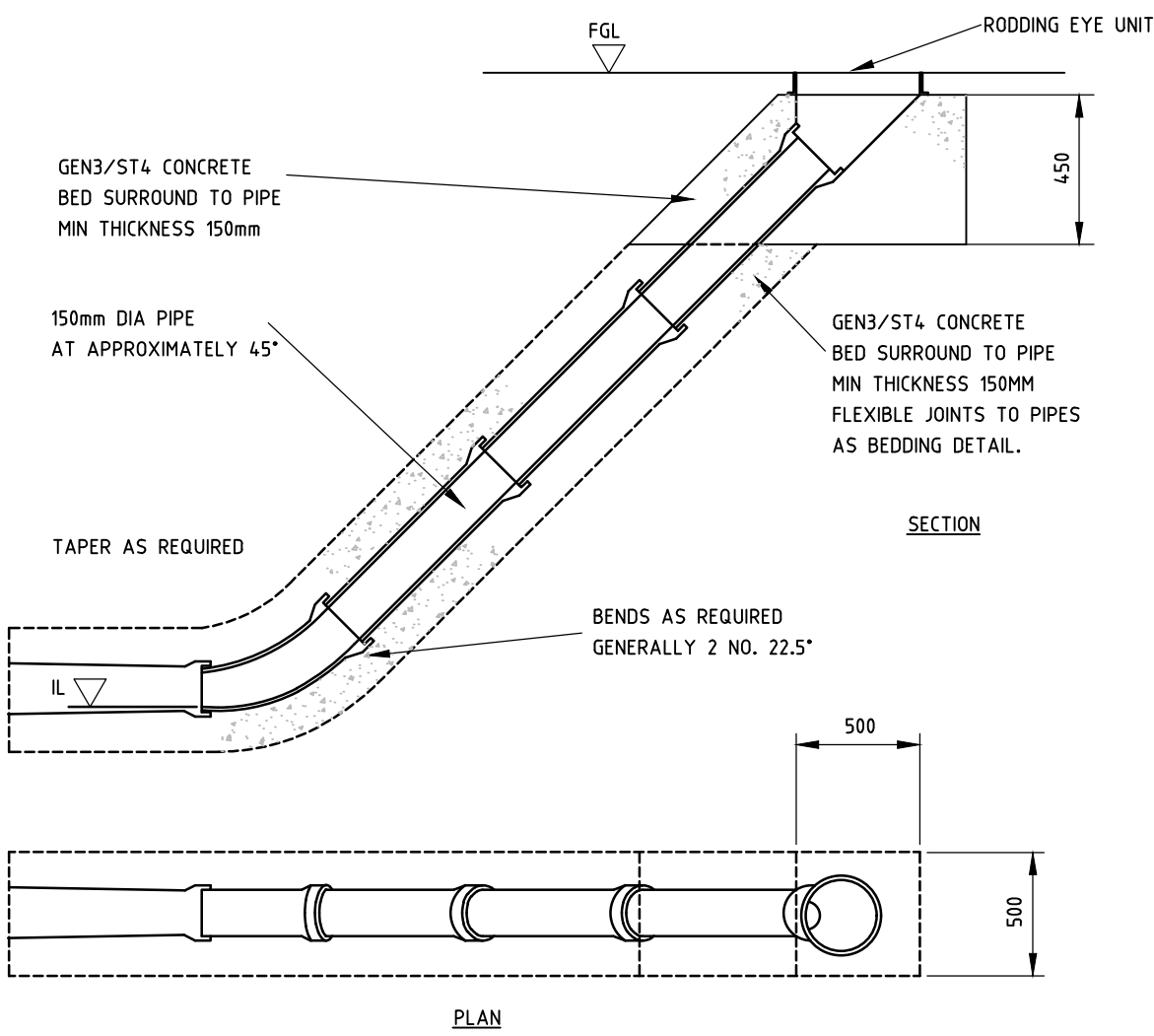
SITED IN SOFT LANDSCAPED AREAS



SITED IN DRIVEWAYS / HARD LANDSCAPED AREAS

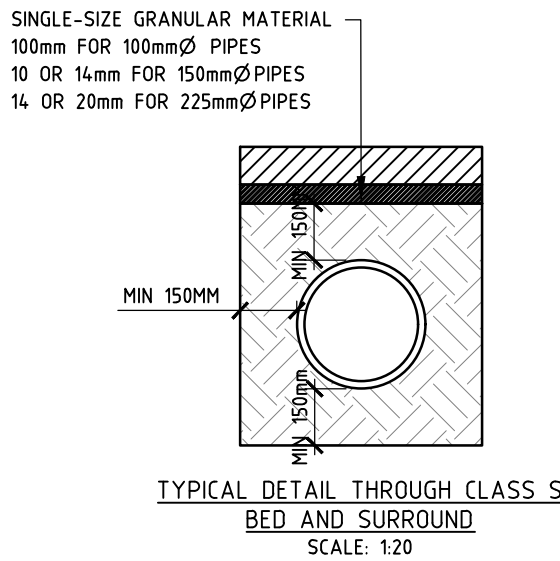
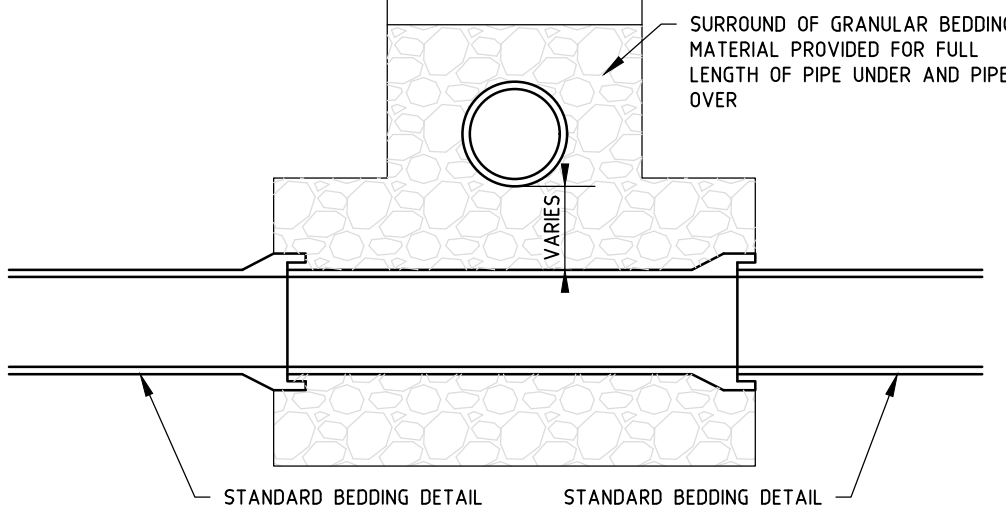
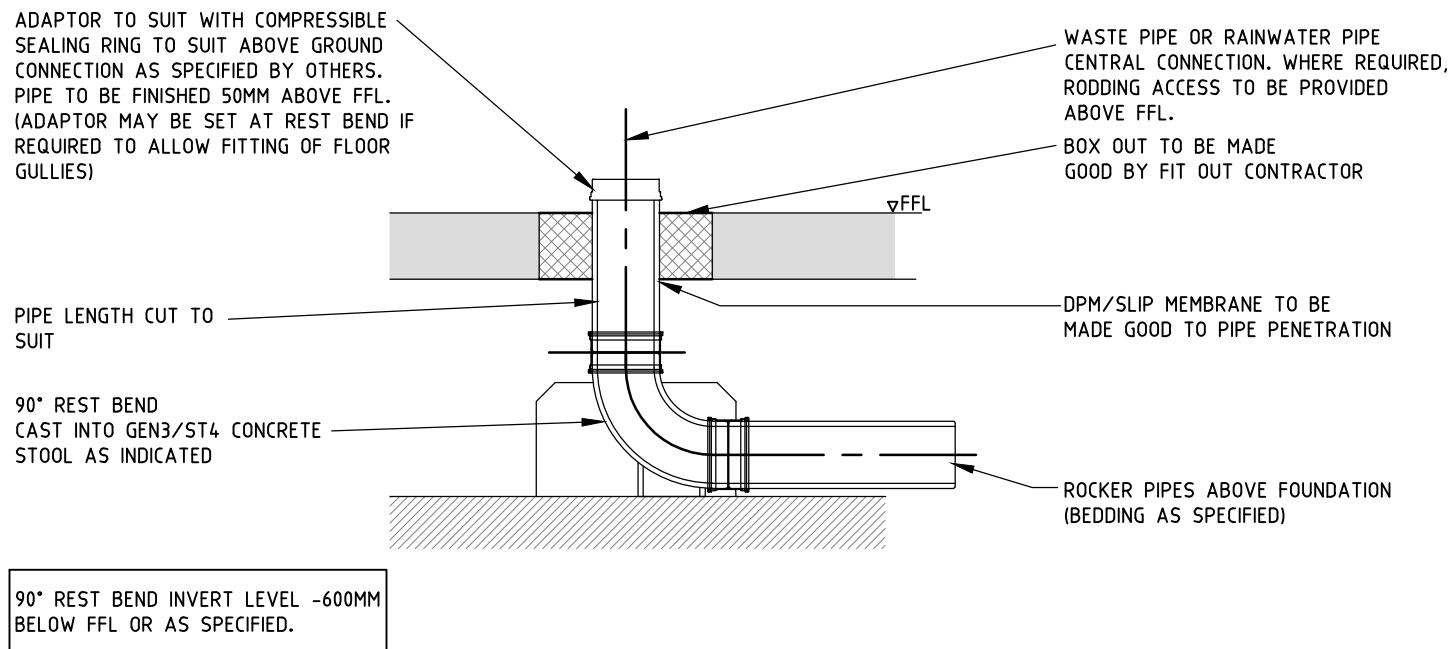
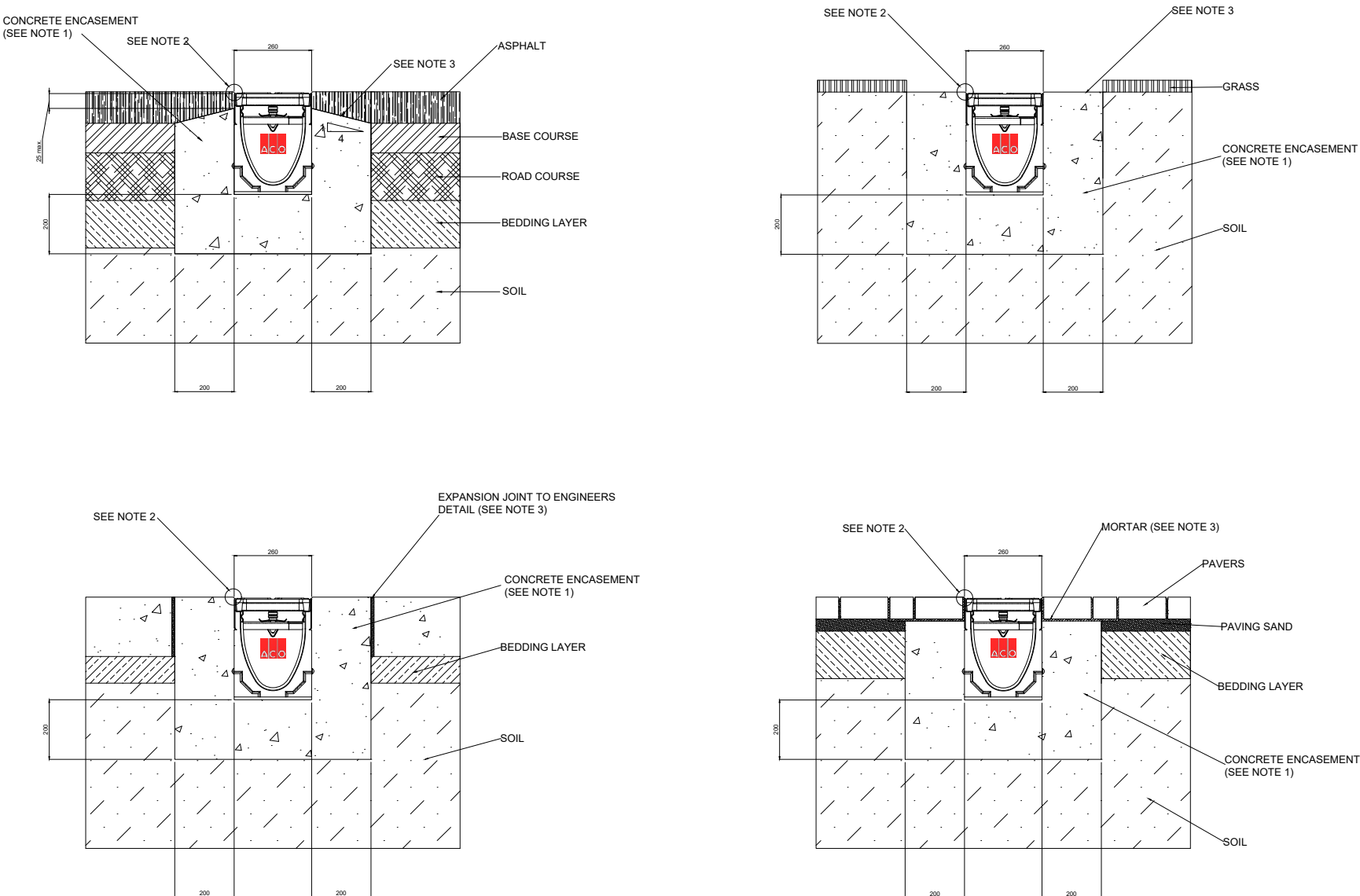


POLYPROPYLENE INSPECTION CHAMBER
INSTALLATION DETAIL
SCALE 1:20



BEDDING NOTES

CONCRETE BED AND SURROUND TO BE USED ON NON-ADOPTED DRAINAGE IN TRAFFICKED AREAS WHERE COVER TO PIPE SOFFIT IS 900MM OR LESS AND IN NON-TRAFFICKED AREAS WHERE COVER TO PIPE SOFFIT IS 350MM OR LESS. OTHERWISE GRANULAR BED AND SURROUND TO BE USED



SPECIFICATION CLAUSE
KLASSIKDRAIN K100 - LOAD CLASS A-B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S KLASSIKORAIN K100 POLYMER CONCRETE V-PROFILE CHANNEL SYSTEM WITH GALVANISED STEEL EDGE RAILS AS MANUFACTURED BY ACO.

MATERIALS
K100 CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANISED STEEL EDGE RAIL. PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS WITH SUPPORTING DOCUMENTATION:

COMPRESSIVE STRENGTH:	98 MPa
FLEXURAL STRENGTH:	26 MPa
TENSILE STRENGTH:	14 MPa
WATER ABSORPTION:	0.07%
FROST PROOF:	YES
COEFFICIENT OF EXPANSION/CONTRACTION:	2.02x10 ⁻⁵ /°C
WATER VAPOUR TRANSMISSION:	0.0364g/m ²
NON FLAMMABLE:	YES
COEFFICIENT OF ROUGHNESS (MANNINGS):	n=0.011
RESISTANT TO WEATHERING:	YES
DILUTE ACID AND ALKALI RESISTANT:	YES
SF SEALANT GROOVE	YES

CHANNELS
K100 CHANNEL SHALL BE 100mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 130mm. CHANNEL INVERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE. K100 SLOPED CHANNELS SHALL HAVE A BUILT-IN SLOPE OF 0.5%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

GRATES
INSERT SPECIFICATION FOR THE SELECTED GRATE, REFER TO THE RELEVANT ACO SPECIFICATION INFORMATION SHEET, CLICK www.acodrain.com.au/resources.

INSTALLATION
THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO AND TO BE INSTALLED FOR ITS INTENDED PURPOSE. ANY DEVIATION OR PARTIAL USE OF THE SPECIFIED SYSTEM AND/OR IMPROPER INSTALLATION WILL VOID ALL WARRANTIES PROVIDED BY ACO.

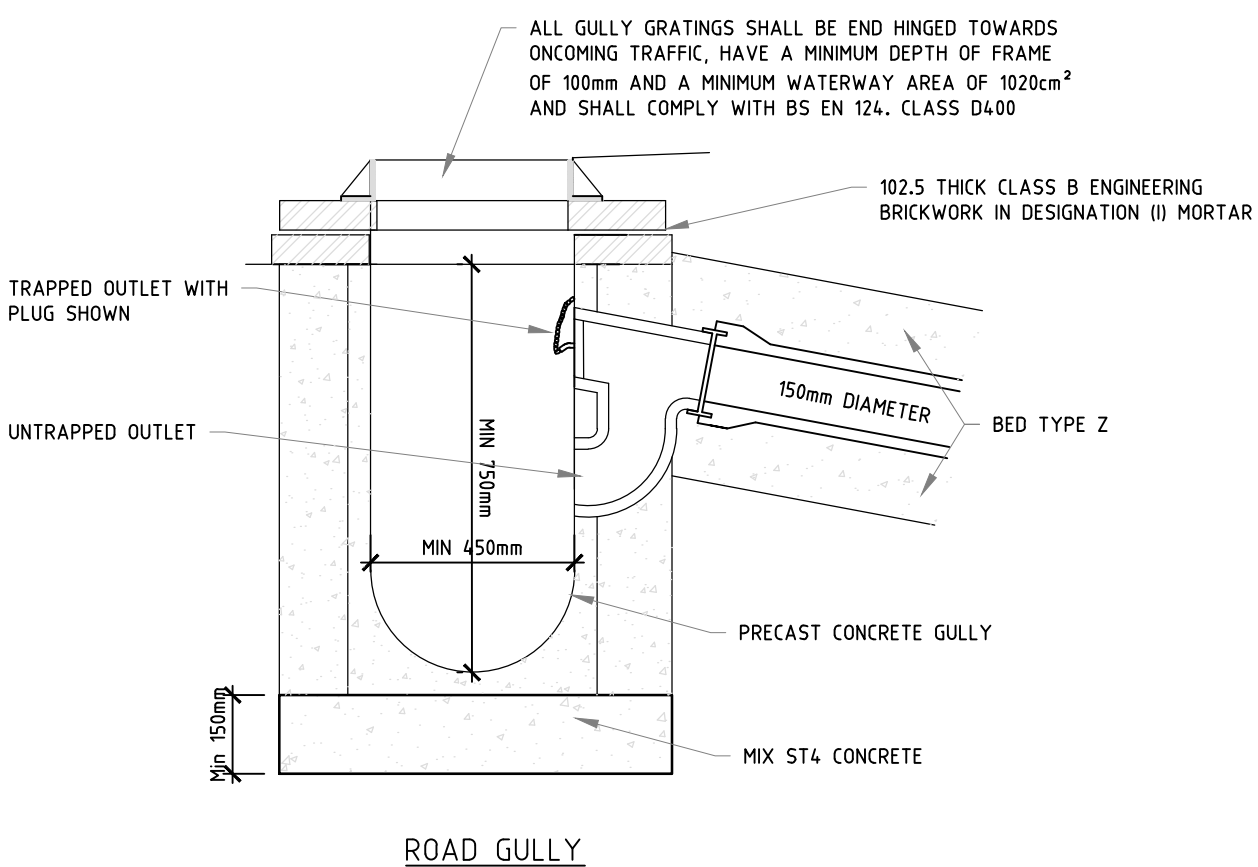
NOTES:
1. Specific site conditions may require an increase in concrete encasement dimensions and/or reinforcement. It is the customer's responsibility to ensure the concrete encasement is designed for the application. A minimum concrete strength of 25MPa is recommended. The concrete should be vibrated to eliminate air pockets. Engineering advice may be required.
2. The finished level of the asphalt must be approximately 3mm above the top of the channel edge.
3. Haunch slopes away at a ratio of 1:4 or approximately 15°.
4. For further details, refer to ACO's design & site installation files at www.acodrain.com/resources.

NOTES:

- ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH BUILDING REGULATIONS APPROVED DOCUMENT H.
- SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2M IN TRAFFICKED AREAS AND 0.9M IN FIELDS SHALL HAVE BED AND SURROUND CLASS S.
- ANY SEWER WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN TRAFFICKED AREAS OR 0.9M TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 150MM GEN 3 CONCRETE BED AND SURROUND WITH FLEXIBILITY MAINTAINED WITH FLEXCELL EXPANSION JOINT FILLER OR SIMILAR APPROVED AT EACH PIPE JOINT.
- WHERE THE DEPTH TO INVERT LEVEL IS A MAXIMUM OF 1.2M PRIVATE DRAINAGE CHAMBERS WILL BE A 450mm DIAMETER PPIC IN ACCORDANCE WITH BS EN 13598-1.
- WHERE THE DEPTH TO INVERT LEVEL IS A MAXIMUM OF 3M PRIVATE DRAINAGE CHAMBERS WILL BE 450mm DIAMETER PPIC IN ACCORDANCE WITH BS EN 13598-2.
- WHERE CHAMBERS ARE SITED IN TRAFFICKED AREAS A D400 GRADE COVER MUST BE USED.
- PRIVATE DRAINAGE PIPES TO BE 100MM DIAMETER UNLESS STATED OTHERWISE.

NOTES:

- GULLY COVER SLAB TO BE OF CONCRETE CLASS C25/20
- GULLY FRAMES SHALL BE TO EUROPEAN STANDARD EN 124 : PART 2 OR CLAYWARE TO BS 65 WITH CONCRETE FOUNDATIONS
- ALL GULLY GRATINGS SHALL BE END HINGED TOWARDS THE ONCOMING TRAFFIC, HAVE A MINIMUM DEPTH OF FRAME OF 100MM AND A MINIMUM WATERWAY AREA OF 1020CM². CLAUSE 3.11. AND SHALL COMPLY WITH (BS) EN 124 CLASS D400
- ONLY CONCRETE GULLY POTS SHOULD BE USED AND THESE SHOULD CONFORM TO BS5911 PART 230. DIMENSIONS WILL BE 450MM DIA X 760MM DEEP. CLAUSE 3.10(ii)
- GULLY CONNECTIONS SHALL BE 150 FLEXIBLE JOINTED PIPES WITH WATERTIGHT JOINTS
- GULLY CONNECTIONS SHALL BE SURROUNDED WITH CONCRETE FOR THE FULL LENGTH OF THE CONNECTION.
- ALL GULLY GRATINGS SHALL BE END HINGED TOWARDS THE ONCOMING TRAFFIC, HAVE A MINIMUM DEPTH OF FRAME OF 100mm AND A MINIMUM WATERWAY AREA OF 1020cm². CLAUSE 3.11. AND SHALL COMPLY WITH (BS) EN 124 CLASS D400.
- ONLY CONCRETE GULLY POTS SHOULD BE USED AND THESE SHOULD CONFORM TO BS5911 PART 230. DIMENSIONS WILL BE 450mm DIA. X 760mm DEEP. CLAUSE 3.10 (ii)
- GULLY CONNECTIONS SHALL BE SURROUNDED WITH CONCRETE FOR THE FULL LENGTH OF THE CONNECTION.
- JET AND PROVE ALL EXISTING GULLY CONNECTIONS THAT ARE TO BE RE-USED.
- EACH GULLY SHALL HAVE A SEPARATE/INDIVIDUAL CONNECTION TO THE SEWER.
- GULLY GRATINGS AND FRAMES SHALL BE SET ABUTTING THE KERB UNIT AND 6MM BELOW THE PLANE OF THE FINISHED SURFACING.



Project Name		Client	
COLLYHURST VILLAGE		DEX CONSTRUCTION	
Designed	Drawn	Checked	Scale @ A1
A.R.	A.R.	M.A.	N/A
Drawing Title			
DRAINAGE CONSTRUCTION DETAILS			
SHEET 2			
Project No.		ISSUED FOR CONSTRUCTION	
221625		Revision	
Drawing No.		221625-EDGE-XX-XX-DR-C-2109	
C01		C01	