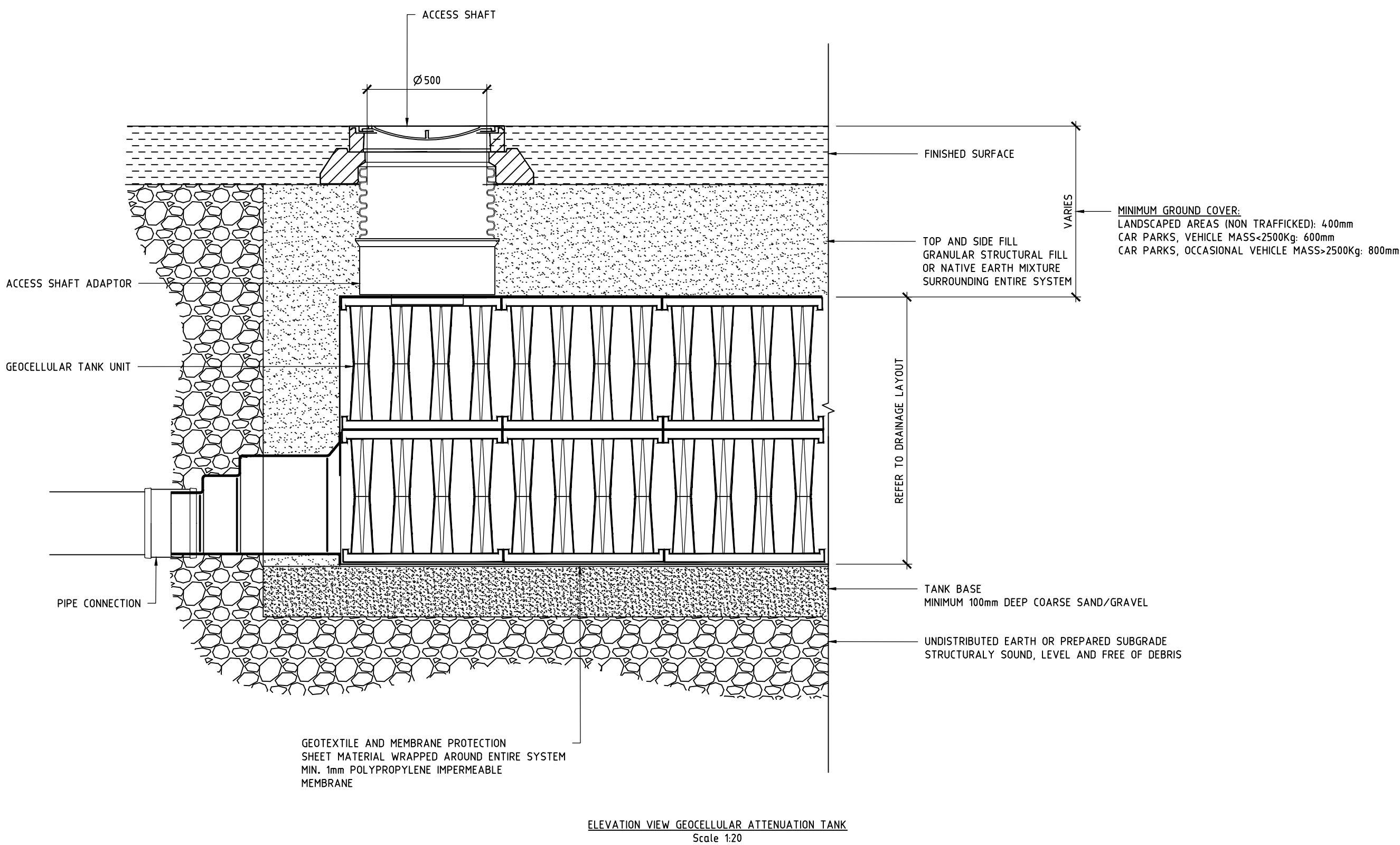
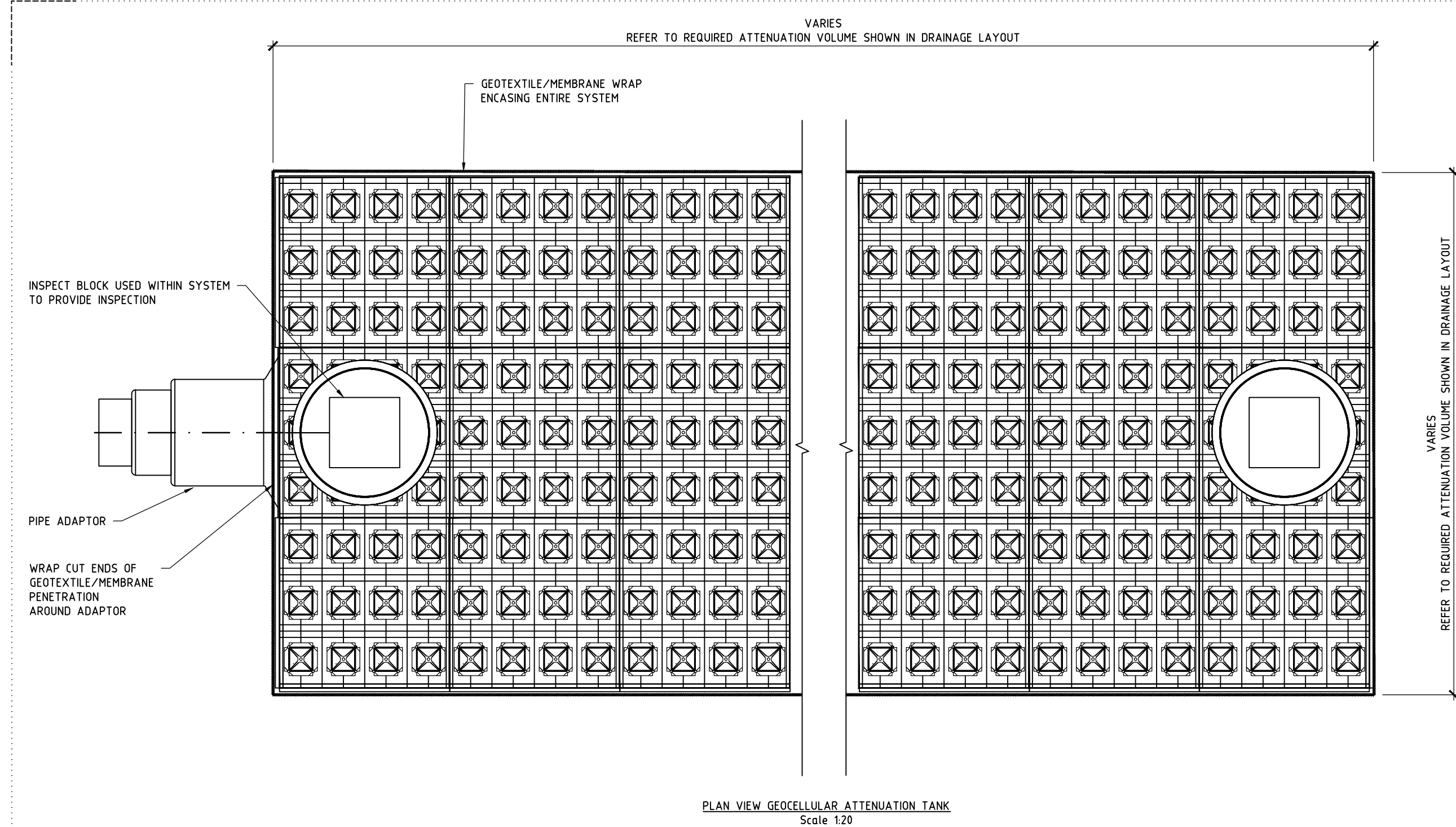
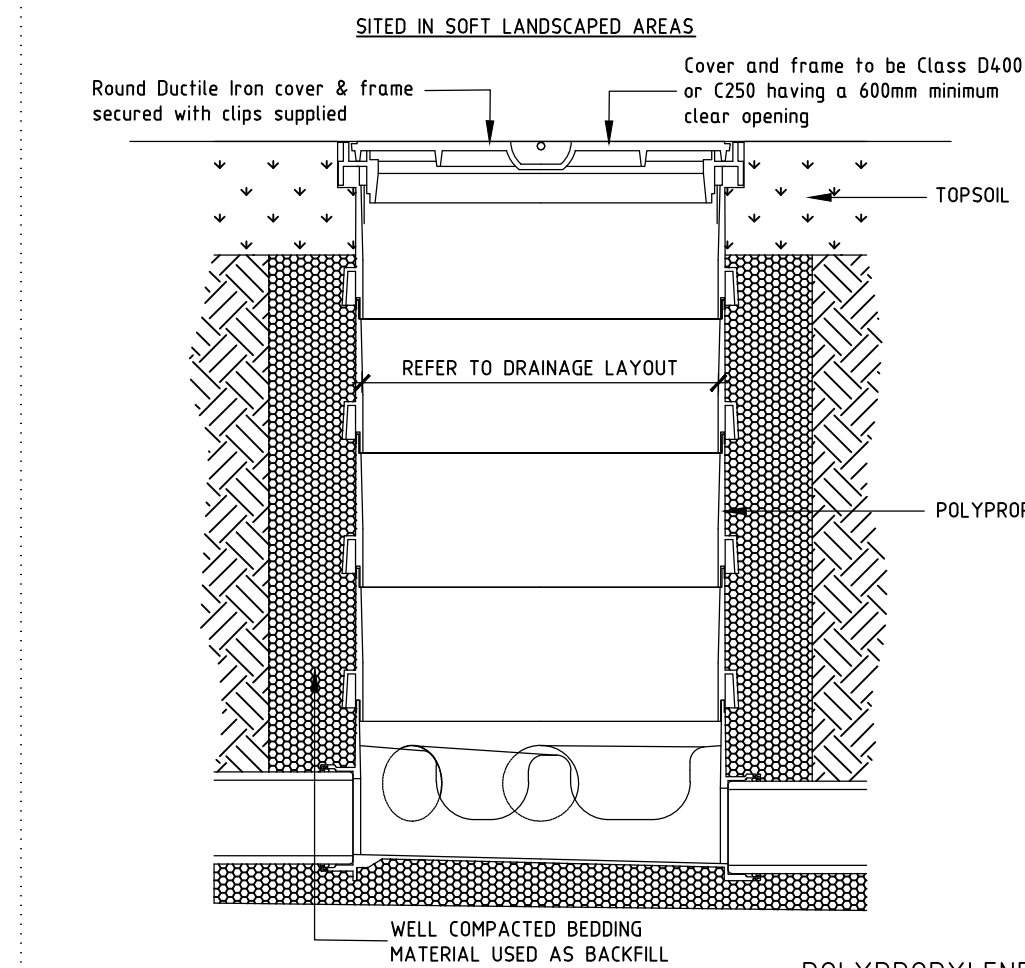


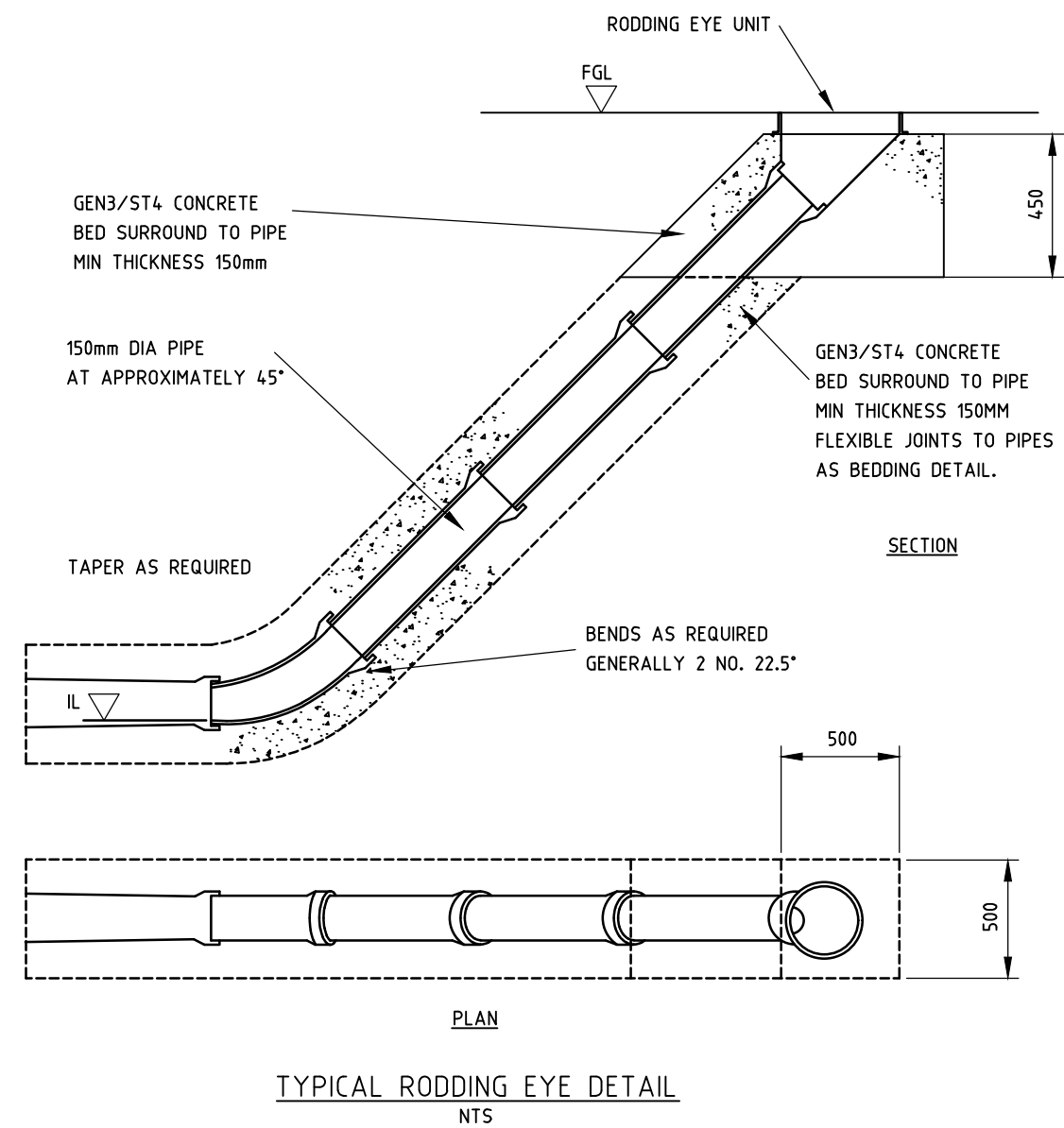
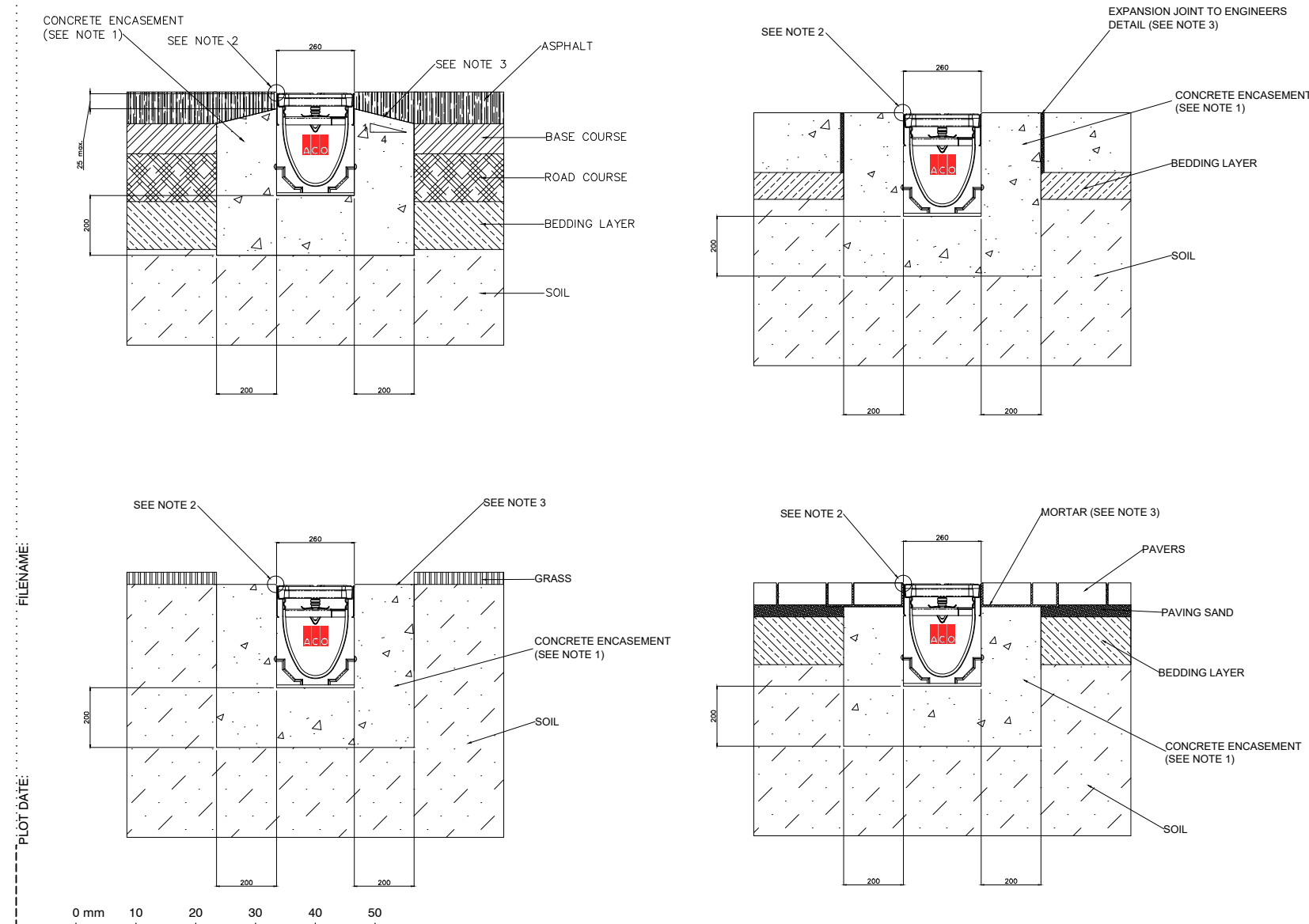
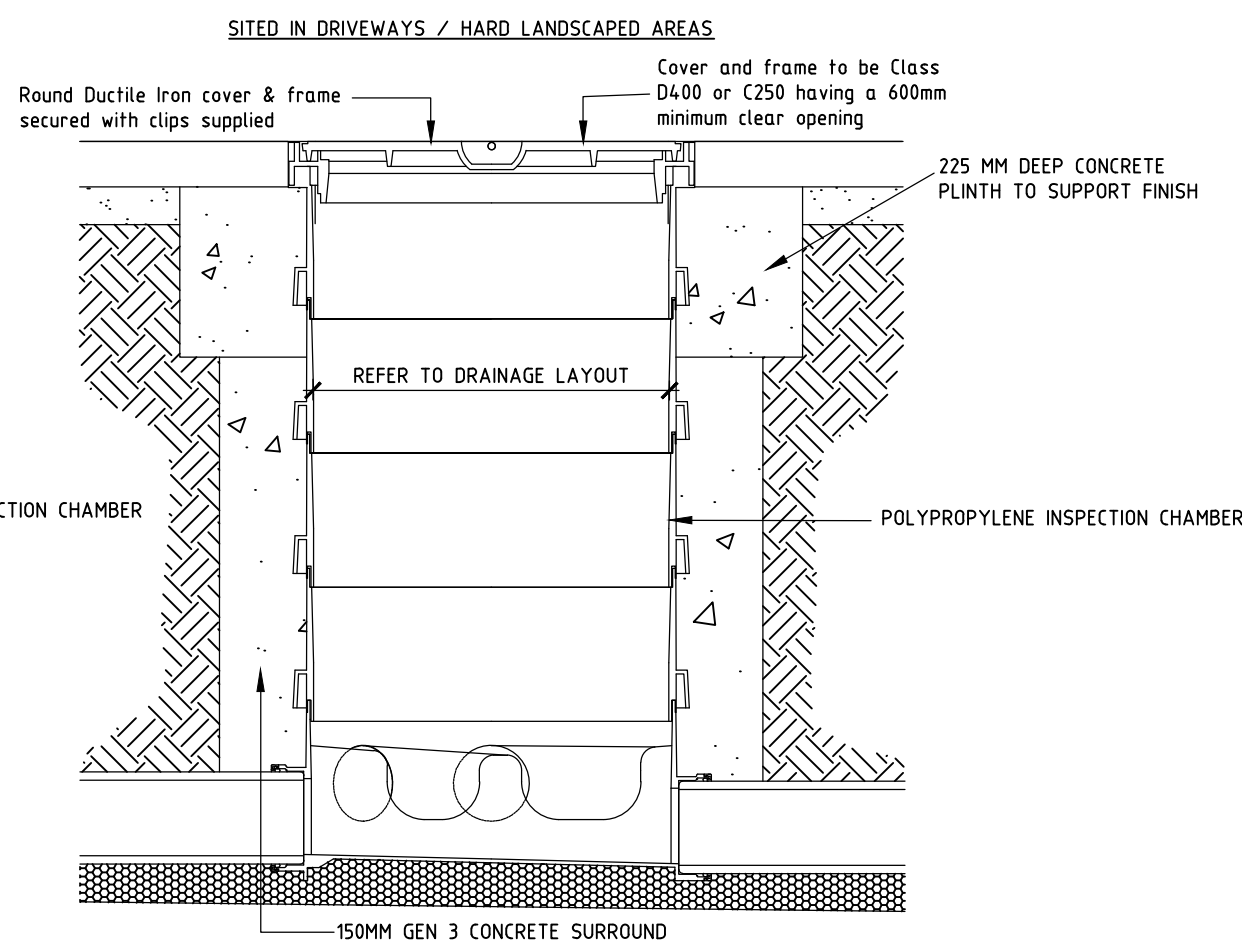


NOTES:

1. ALL HIGHWAY WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 6CS DESIGN GUIDE AND THE REFA DRAWING 15030/04/1 & 15030/04/2
2. THE CONTRACTOR SHALL ASCERTAIN THE CBR OF THE SUB GRADE ON SITE IN ORDER TO DETERMINE THE REQUIRED SUB-BASE AND CAPPING LAYER THICKNESS.
3. PRIOR TO LAYING ANY MATERIAL THE SUB GRADE MUST BE INSPECTED AND ANY SOFT SPOTS REMOVED AND FILLED WITH TYPE 2 MATERIAL TO SHW CLAUSE 804.
4. USE OF THIS DRAWING DOES NOT ABSOLVE THE CLIENT FROM HIS RESPONSIBILITIES UNDER HEALTH AND SAFETY: THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS.
5. CLASS 2 SULPHATE RESISTANT CEMENT TO BE USED THROUGHOUT.
6. ALL TRENCH BACKFILL UNDER PROPOSED HIGHWAY AREAS TO BE TYPE 1 STONE COMPACTED IN 150MM LAYERS.
7. MAIN CONTRACTOR TO UNDERTAKE CBR TEST



POLYPROPYLENE INSPECTION CHAMBER
INSTALLATION DETAIL
Scale 1:20



SPECIFICATION CLAUSE

KLASSIKDRAIN K100 - LOAD CLASS A-B

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE ACO'S KLASSIKDRAIN 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

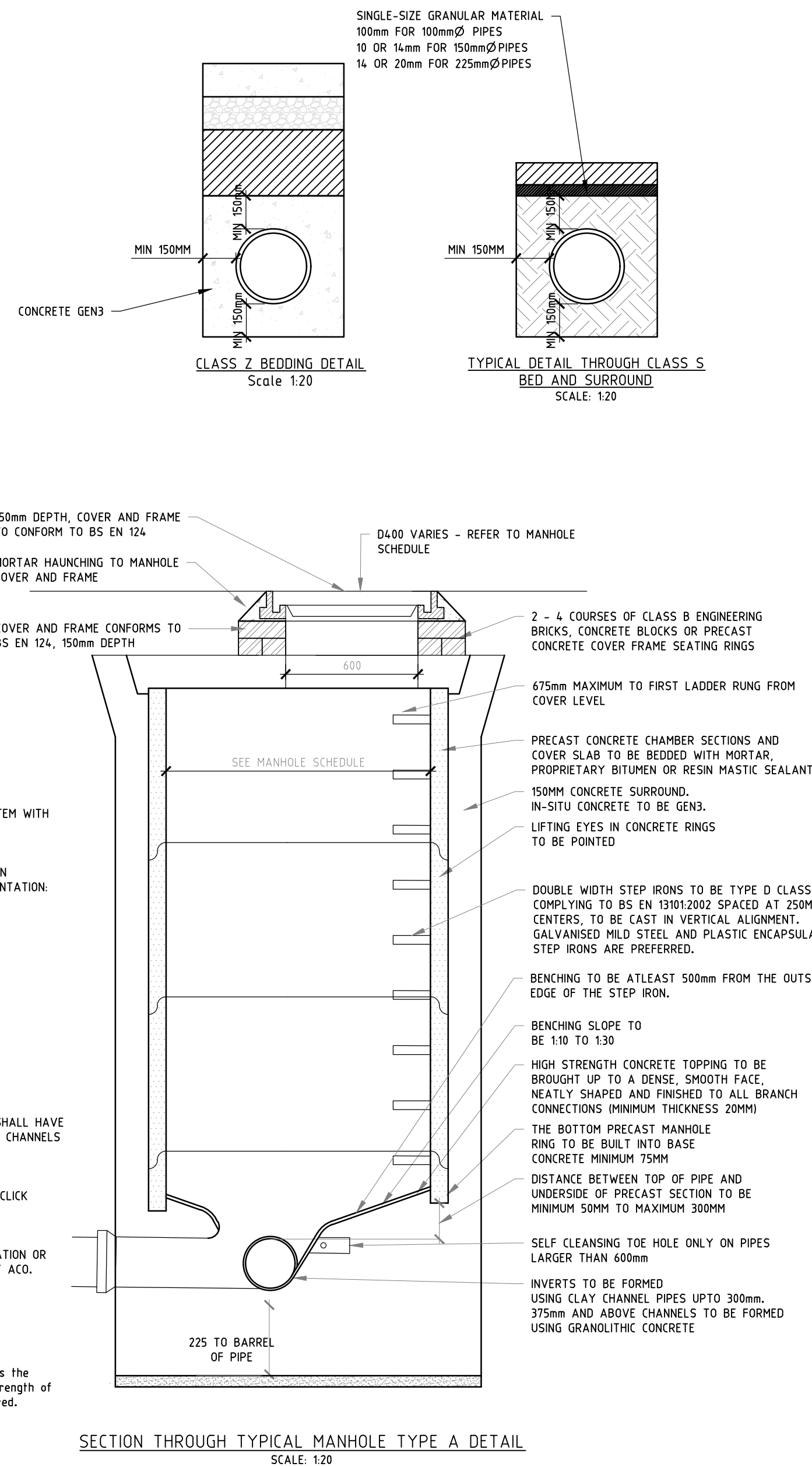
CHANNELS
K100 CHANNEL SHALL BE 100mm NOMINAL INTERNAL WIDTH WITH AN OVERALL WIDTH OF 130mm. CHANNEL INVERT SHALL HAVE A V-PROFILE TO ALLOW EFFICIENT DRAINAGE. K100 SLOPED CHANNELS SHALL HAVE A BUILT-IN SLOPE OF 0.5%. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

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.



P02 23.05.23	Updated to include attenuation tank	J.W	R.A
P01 19.05.23	PRELIMINARY - Issued for Information	J.C	R.A
Rev	Date	Description	By

EDGE
CONSULTING ENGINEERS
www.edgece.com

Manchester . UK
3rd Floor, Cornavon Court,
12 Blackfriars Street,
Manchester, M3 9BQ,
United Kingdom

T: +44 (0) 161 834 1938
E: manchester@edgece.com

The concepts + information contained in this document are the copyright of EDGE Consulting Engineers. Use or copying of this document in whole or in part without the written permission of EDGE Consulting Engineers constitutes an infringement of copyright.

DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!

Project Name COLLYHURST VILLAGE

Client			
DEX CONSTRUCTION			
Designed	Drawn	Checked	Scale @ A1
J.C	J.C	R.A	1:20
Drawing Title			
DRAINAGE			
CONSTRUCTION DETAILS			

Project No.	221625	PRELIMINARY NOT FOR CONSTRUCTION
Drawing No.	221625-EDGE-STH-XX-DR-C-3202	Revision
P02		