**NOTES**

**GENERAL**
1. INVERT LEVELS AND REFERENCE POINT DATA ARE SPECIFIED IN THE DESIGN DRAWINGS.
2. INLET/OUTLET PIPES MAY JOIN STRUCTURE AT SKW ANGLES.
3. THE STRUCTURE IS NOT APPROPRIATE FOR DIRECT CONNECTION TO WATER CORPORATION DRAIN UNLESS PROVIDED WITH SLT TRAP OR INCOMING SURFACE DRAINAGE HAS BEEN 'TRAPPED' UPSTREAM.
4. FOR INFORMATION RELATING TO GROUND PREPARATION OF STRUCTURES REFER TO ROAD RECOMMENDATIONS AND DESIGN DRAWINGS.

**CONCRETE & REINFORCEMENT**
5. ALL IN-SITU CONCRETE SHALL BE CLASS N02 IN ACCORDANCE WITH AS379.
6. ALL IN-SITU CONCRETE CORNERS SHALL HAVE A 29 CHAMFER UNLESS OTHERWISE NOTED.
7. CEMENT MORTAR SHALL CONSIST OF ONE PART PORTLAND CEMENT OR SIMILAR AND THREE PARTS SAND.
8. SBR REINFORCEMENT SHALL CONFORM WITH HARD DRAWN FABRIC TO AS4471.
9. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50.

**LINER**
10. THE LINER SHALL BE REINFORCED CONCRETE SPUN TO AS4478.
11. THE MAXIMUM INLET/OUTLET PIPE OUTSIDE DIAMETER MUST BE LESS THAN 40% OF THE LINER INTERNAL DIAMETER. SEE TABLE 2.
12. MINIMUM SPACE OF 200 BETWEEN HOLES IN LINER.
13. MINIMUM OF 40% OF LINER SHALL REMAIN IN ANY HORIZONTAL PLANE.
14. HOLES TO BE PUNCHED/CUT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
15. THE LINER SHALL HAVE EQUIVALENT PROPERTIES AND REINFORCEMENT OF CLASS 2 RCP EXCEPT THAT THE REINFORCEMENT SHALL BE CIRCULAR.

**STEP IRONS**
16. FOR STRUCTURES DEEPER THAN 1200, STEP IRONS OR PREFABRICATED GALVANISED STEEL LADDER SHALL BE FITTED. THE LADDER SHALL BE FIXED WITH STAINLESS STEEL MASONRY ANCHORS IN ACCORDANCE WITH AS5671.
17. ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO FACED ONCOMING TRAFFIC.

**SUPERSeded DRAWINGS**
18. THIS DRAWING SUPERSEDES DRAWINGS 9831-5081, 9831-5084 & 9831-5087.