NOTES

GENERAL
1. INVERT LEVELS AND REFERENCE POINT DATA ARE SPECIFIED IN THE DESIGN DRAWINGS.
2. INLET/OUTLET PIPES MAY JOIN STRUCTURE AT SKEW ANGLES.
3. THIS STRUCTURE IS NOT APPROPRIATE FOR DIRECT CONNECTION TO WATER CORPORATION DRAIN UNLESS PROVIDED WITH SILT TRAP OR INCOMING SURFACE DRAINAGE HAS BEEN 'TRAPPED' UPSTREAM.
4. FOR INFORMATION RELATING TO GROUND PREPARATION OF STRUCTURES REFER TO MAIN ROADS TENDER DOCUMENT - PREPARATION NO. 405 (DRAINAGE STRUCTURES).
5. FOR INFORMATION RELATING TO ROCK PITCHING OF STRUCTURES REFER TO MAIN ROADS TENDER DOCUMENT - PREPARATION NO. 406 (ROCK PROTECTION).

CONCRETE & REINFORCEMENT
6. ALL IN-SITU CONCRETE SHALL BE CLASS N32 IN ACCORDANCE WITH AS3790.
7. ALL IN-SITU CONCRETE CORNERS SHALL HAVE A 20 CHAMFER UNLESS OTHERWISE NOTED.
8. CEMENT MORTAR SHALL CONSIST OF ONE PART PORTLAND CEMENT (OR SIMILAR) AND THREE PARTS SAND.
9. SRL1 REINFORCEMENT SHALL CONFORM TO HARD DRAWN FABRIC TO AS4447.
10. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50.

LINER
11. THE LINER SHALL BE REINFORCED CONCRETE SPLIN TO AS4059.
12. THE MAXIMUM INLET/OUTLET PIPE OUTSIDE DIAMETER MUST BE LESS THAN 60% OF THE LINER INTERNAL DIAMETER. SEE TABLE 2.
13. MINIMUM SPACE OF 200 BETWEEN HOLES IN LINER.
14. MINIMUM OF 40% OF LINER SHALL REMAIN IN ANY HORIZONTAL PLANE.
15. HOLES TO BE PUNCHED/CUT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
16. THE LINER SHALL HAVE EQUIVALENT PROPERTIES AND REINFORCEMENT OF CLASS 2 RCP EXCEPT THAT THE REINFORCEMENT SHALL BE CIRCULAR.

STEP IRONS
17. 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 AS1657.
18. ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO FACE ONCOMING TRAFFIC.

COVER
19. ORIENTATE COVER SO GRATE BARS ARE PARALLEL TO DIRECTION OF FLOW.

OUTLET HOOD
20. USE OUTLET HOOD WHERE SPECIFIED IN DESIGN DRAWINGS FOR PIPES FROM Ø300 TO Ø450.
21. STRUCTURES REQUIRING AN OUTLET HOOD SHALL BE A MINIMUM OF 1200 DEEP.
22. APPROVED BAFFLES MAY BE USED AS REFERRED TO IN PIT SILT TRAP DRAWINGS FOR PIPES FROM Ø300 TO Ø600.

SUPERSEDED DRAWINGS
23. THIS DRAWING SUPERSEDES DRAWINGS 9831-5057 & 9831-5060.

SECTION A

TABLE 2

<table>
<thead>
<tr>
<th>LINER Ø</th>
<th>MAX. Ø PIPE CONNECTING TO LINER</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM. Ø900</td>
<td>NOM. Ø450</td>
</tr>
<tr>
<td>NOM. Ø1050</td>
<td>NOM. Ø525</td>
</tr>
<tr>
<td>NOM. Ø1200</td>
<td>NOM. Ø600</td>
</tr>
</tbody>
</table>

TABLE 1

<table>
<thead>
<tr>
<th>STRUCTURE TYPE</th>
<th>PIT DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>THIN</td>
<td>600-1200</td>
</tr>
<tr>
<td>SHN</td>
<td>1200-3600</td>
</tr>
</tbody>
</table>

ALL UNITS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.