Access hole cover shall be located above all drainage lines.

Chamber Details:
- Chamber 120 bars DF and 120 bars DF at each RCP
- SMI mesh
- Floor is a minimum of 2100mm maximum 2500mm
- Walls a minimum of 2100mm maximum 2500mm
- Chamber Height: 1500mm between pipes

NOTES:
1. SCOPE: This Standard Drawing provides details of roadway type access chambers of minimum depth 5000mm.
2. ACCESSES: Chambers shall be in accordance with AMS1033.
3. DESIGN: Chambers up to 5000mm deep - 50 years for all components.
4. DESIGN CONCRETE COMPONENTS:
   - Traffic loads and live load shall be in accordance with AS 5100.
   - Live load shall be in accordance with AS 5100.
   - Structural design shall be in accordance with AS 3600.
5. CONCRETE AND REINFORCING Steel shall be Class 0 to AS 3600.
6. CONCRETE shall be in accordance with AS 3600.

Exposure classification and cover to reinforcement shall be in accordance with AS 3600. Minimum concrete strength and cover to reinforcement shall be as shown in the table below.

<table>
<thead>
<tr>
<th>Exposure classification</th>
<th>Minimum SP</th>
<th>SP</th>
<th>SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum concrete strength</td>
<td>100/20</td>
<td>100/20</td>
<td>100/20</td>
</tr>
</tbody>
</table>

| Minimum Cover | 45 | 50 | 60 |

All exposed edges shall have 15 x 15 chamfers unless otherwise stated.

7. WELDING: Welds shall be to weld sizes and welding grade 1043 and 1044. Reinforcing steel shall be in accordance with AMS1033 and AS/NZS 1537. All reinforcing steel shall be A500 grade.

8. Access to chamber shall be in accordance with AS 1657.

9. NSW RAILWAY: Reinforcement bar shall be in accordance with AS 1534-6.2 and AS 1534-1-6.2. Welding consumables to be controlled by type S600 and S500.

10. PROJECT/ENGINEERING INFORMATION TO BE STATED IN THE DOCUMENTS:
    - Reference Plane, Height of chamber, Covering pipe details, and steel schedule.

11. DESIGN REQUIREMENTS for chambers deeper than 5000mm:
    - Design life 100 years;
    - Minimum exposure classification 80 to AS 5100;
    - Minimum concrete strength 540/20;
    - Cover to reinforcement 50/100.

Concrete components shall be designed for loading as specified in Note 4.

12. DIMENSIONS are in millimeters unless stated otherwise.

ASSOCIATED DOCUMENTS:
- Design Criteria for Bridges and other Structures
- Road Drainage Manual

REFERENCE DOCUMENTS:
- Departmental Standard Drawings:
  - 1043 Reinforcing Steel - Standard Bar Shapes
  - 1044 Reinforcing Steel - Long Lengths
  - 1308 Access Chamber - Precast Roof Slab

Departmental Specifications:
- AMS1033 Drainage, Retaining Structures and Protective Treatments
- AMS1037 Reinforcing Steel

Department of Transport and Main Roads

ACCESS CHAMBER

CAST IN SITU DETAILS
FOR 1050 TO 2100 DIAMETER
ROADWAY TYPE ACCESS CHAMBER