

**SECTION**    **F**                    **CORROSION PROTECTION**

<b>PAGE</b>	<b>DRAWING NO.</b>	<b>TITLE</b>
F1	96 - 0180 - 05	General Information.

ISSUED 6th JANUARY 1997

## CORROSION PROTECTION

### GENERAL INFORMATION:

The following corrosion protection procedures shall apply to all buried mains

- (1) All DICL pipe and fittings are to be protected by an approved LLDPE sleeving.
- (2) All Mild Steel specials shall be protected with bitumen mastic tape system in accordance with SA Water Specification DS 81.
- (3) All Cast Iron and Ductile Iron fittings shall be protected with petrolatum tape system in accordance with SA Water Specification DS 29.
- (4) All Stop Valves and Scour Valves above DN 250 shall be protected by an approved anti-corrosion product.
- (5) All Cast Iron and Mild Steel fittings, regardless of size shall be protected by an approved anti-corrosion product, where there are known corrosive soil conditions.
- (6) Bonding of Stop Valves and Scour Valves shall be in accordance with Water Supply Construction Manual Drawing C2.
- (7) Cathodic protection for MSCL dog legs shall be in accordance with Water Supply Construction Manual Drawing C11 - Cathodic Protection of DICL dog legs is not required provided they are protected by a LLDPE (linear low density polyethylene) sleeving in accordance with WSCM Drawing C2.

Approved anti-corrosion protective products and procedures for their application are contained in SA Water specification DS 29 (Protection of pipework and fittings in below ground pipelines using petrolatum anti-corrosion tapes and compounds).

Additional information on corrosion protection is contained on SCM page M4.

### CATHODIC PROTECTION:

Where there is a long length of MSCL main to be laid, consideration should be given to cathodic protection.

The procedure for the installation of cathodic protection points and systems is detailed in the SA Water Standard Drawings listed below:

- |              |   |
|--------------|---|
| 75 - 10 - 01 | Cathodic Protection Test Points & Bonding Cable Details.        |
| 75 - 10 - 02 | Cathodic Protection Bonding Cable Details.                      |
| 75 - 19 - 01 | Assembly 01 Test Points.  |
| 75 - 19 - 02 | Assembly 01 Test Points.  |
| 75 - 28      | Standard Insulated Flanged Joints.                              |
| 79 - 103     | Standard Streetbox & Cover for Cathodic Protection Test Points. |
| 75 - 30      | Standard MSCL Pipelines Crossing Under Railways.                |

96-0180-05  
ISSUED 1<sup>st</sup> JULY 1996

Chg		Amendment -	Des		signed <b>RMJones</b> for Executive Manager 14/6/96  ENGINEERING & PROJECTS	<b>SOUTH AUSTRALIAN WATER CORPORATION</b>	SEWER CONSTRUCTION MANUAL PAGE F1 CORROSION PROTECTION GENERAL INFORMATION	Not to Scale
Drn			Drn					
Ckd			Exm	GRR				
Unit Ldr			Unit Ldr					
©	This drawing is the property of the South Australian Water Corporation and shall not be copied without permission.							96-0180-05