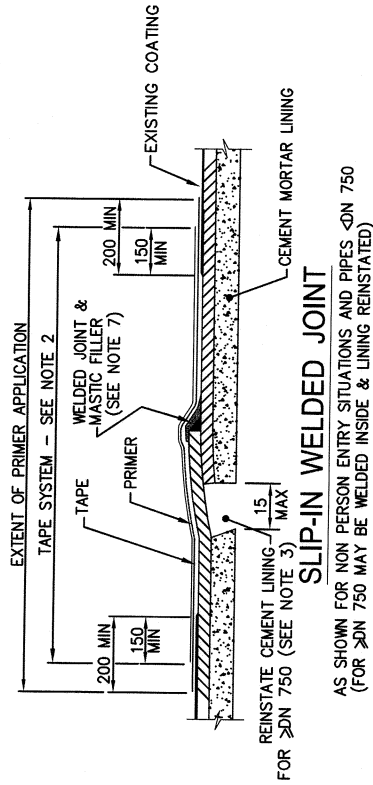
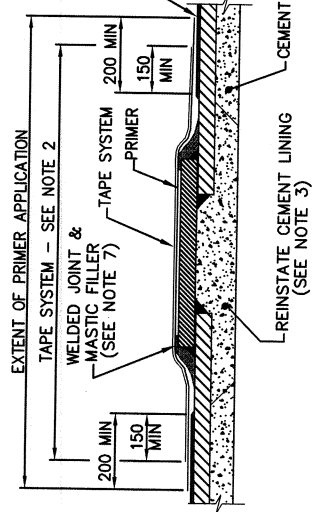


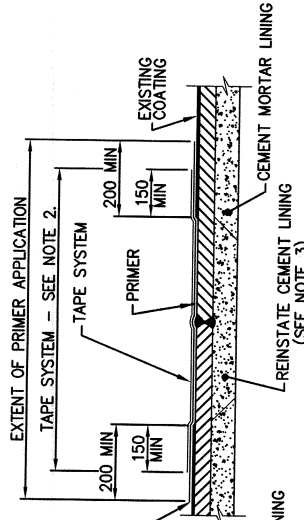
**BALL & SOCKET JOINT**  
(FOR PIPEWORK >DN 750)



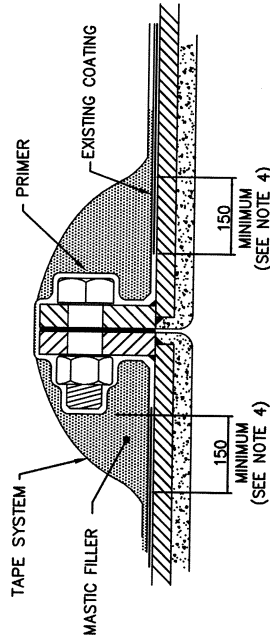
**SLIP-IN WELDED JOINT**  
AS SHOWN FOR NON PERSON ENTRY SITUATIONS AND PIPES <DN 750  
(FOR >DN 750 MAY BE WELDED INSIDE & LINING REINSTATED)



**PLAIN END WELDED COLLAR JOINT**  
(FOR PIPEWORK >DN 750)



**PLAIN END BUTT WELDED JOINT**  
(FOR PIPEWORK >DN 750)





**FLANGED JOINT**

**NOTES**

1. ALL DIMENSIONS IN MILLIMETRES.
2. EXTERNAL CORROSION PROTECTION AT JOINTS - TAPE SYSTEMS
  - (i) SURFACE PREPARATION:
    - REMOVE ALL WELD SPLATTER
    - GRIND SMOOTH ANY RAISED AREAS
    - SMOOTH ANY ROUGH CUT EDGES OF EXISTING COATING
    - WIRE BRUSH ALL SURFACES TO BE WRAPPED REMOVING LOOSE DIRT AND RUST
    - ENSURE NO FREE MOISTURE IS PRESENT.
  - (ii) PRIMER:
    - APPLY A THIN EVEN COAT OF PRIMER IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTION.
    - NOTE: ONLY USE THE PRIMER SUPPLIED BY THE TAPE MANUFACTURER.
  - (iii) MASTIC FILLER:
    - WHERE NECESSARY CONTOUR ANY IRREGULAR PROFILES WITH FILLER TO ENSURE TAPE WILL NOT BRIDGE IN SERVICE.
    - NOTE: ONLY USE FILLER MATERIAL SUPPLIED BY THE TAPE MANUFACTURER.
  - (iv) TAPE APPLICATION:
    - SPIRALLY APPLY TAPE ENSURING A 55% OVERLAP BETWEEN SUCCESSIVE LAYERS IS ACHIEVED
    - ENSURE TAPE IS FREE OF WRINKLES AND VOIDS.
3. REINSTATE/COMPLETE CEMENT LINING USING AN APPROVED PRIMER AND A MORTAR MIX CONSISTING OF 2:1 (CLEAN SHARP SAND/CEMENT).
4. PRIMER AND MASTIC TO OVERLAP EXISTING COATING BY 150 MIN.

MRC STANDARD DRAWINGS SUPERSEDES WSAA STANDARD DRAWINGS

<b>C 5/9</b> <b>AMEND MGR SKN.</b> MODIFIED TO MRC STD OCT07 T'SFER TO MRC TBLOCK 0 WSAA ORIG.		<b>JC</b> SURVEY N/A SURVEY FILE No N/A LEVEL DATUM A.H.D. MERIDIAN MGA-55		<b>WAT-1408</b> WATER SERVICES ASSOCIATION of Australia		<b>COMMERCIAL SERVICES</b> EXECUTIVE MANAGER MACKAY WATER & WASTE REPEQ 7506  JASON DEVITT DATE 27 MAY 09		 <b>Mackay REGIONAL COUNCIL</b> <b>STANDARD DRAWING</b> <b>JOINT CORROSION PROTECTION</b> <b>CEMENT MORTAR LINED STEEL</b> <b>PIPE DN 300 to DN 1200</b>		DRAWING No. <b>A3-04313</b> AMEND. <b>C</b> SHEET 1 OF 1	
<b>NO. DATE</b> APPVD.		<b>DESCRIPTION</b>		<b>DATE OF LAST EDIT</b> May 21, 2009		<b>JOB No</b>		<b>WSAA NO.</b> <b>WAT-1408</b>		<b>DATE</b> 27 MAY 09	