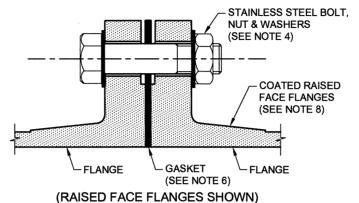
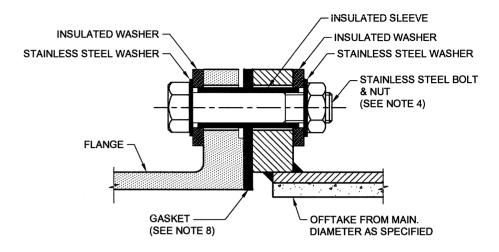


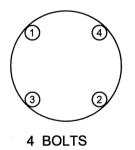
PE BOLTED CONNECTION DETAIL

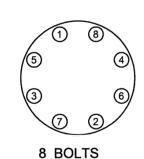


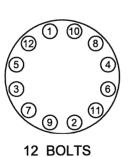
CORROSION PROTECTION PROCEDURE FOR FUSION BONDED COATED **DUCTILE IRON FLANGES** WITH STAINLESS STEEL BOLTS (SEE NOTE 2)



INSULATED FLANGED JOINT FOR STEEL MAINS (SEE NOTE 5)







TIGHTENING SEQUENCE

NOTES:

- 1. ALL DIMENSIONS IN MILLIMETRES U.N.O.
- WHERE FLANGES ARE COATED WITH FUSION BONDED EPOXY OR NYLON THEY DO NOT REQUIRE SLEEVING, USE ONLY STAINLESS STEEL BOLTS (SEE NOTE 5). TAKE CARE TO PREVENT DAMAGE TO THE FLANGES' PROTECTIVE COATING.
- BOLT SYSTEM ONLY STAINLESS STEEL TO BE USED (i) AFTER ASSEMBLY, COVER ALL BOLT HEADS AND NUTS WITH SEALING CAPS FILLED WITH CORROSION PREVENTION PRIMING PASTE (ii) WRAP THE ASSEMBLY WITH PETROLATUM TAPE OR WITH PE SLEEVING AND TAPED.

TAKE SPECIAL CARE WHEN BACKFILLING, TO ENSURE THAT CAPS ARE NOT DISLODGED.

STAINLESS STEEL BOLT SYSTEM. ALL STAINLESS STEEL BOLTS, NUTS, WASHERS AND BACKING PLATES TO BE MANUFACTURED FROM 316 GRADE MATERIAL. COAT THE THREADED SECTIONS OF ALL STAINLESS STEEL BOLTS WITH AN ANTI-SIEZE LUBRICANT RECOMMENDED BY THE BOLT MANUFACTURER.

- VERIFY THE INTEGRITY OF EACH INSULATED FLANGED JOINT AFTER ASSEMBLY.
- USE SPECIAL HIGH RESISTIVITY (LOW CONDUCTIVITY) GASKET MATERIAL. NOT ALL ELASTOMERS ARE NON CONDUCTIVE.
- ROUGHEN COATED RAISED FACE FLANGE SURFACES BEFORE ASSEMBLY. PERFORATION OF THE COATING DOES NOT MATTER ON THE CONTACT FLANGE FACES.
- GASKET MATERIALS TO COMPLY WITH WSA 109.
- TIGHTENING SEQUENCE SHOWN FOR AS 4087 FLANGES < DN450, LARGER SIZES TO FOLLOW SIMILAR PRINCIPLE.

О	DEC/14	GALV DETAIL REMOVED	DB
C	MAY/09	AMEND MGR SIGN	JC
В	MAY/08	MODIFIED TO MRC STD	SLR
Α	OCT/07	T'FER TO MRC T'BLOCK	SLR
0		WSAA ORIG	
No.	DATE	DESCRIPTION	APVD
AMENDMENTS AND REVISIONS			

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CHIEF OPERATING OFFICER WATER & WASTE SERVICES

DAVID BROOKER

DATE



SEWAGE PUMPING STATION

FLANGED JOINTS BOLTING DETAILS **STANDARD DRAWING**

A3-04304 D