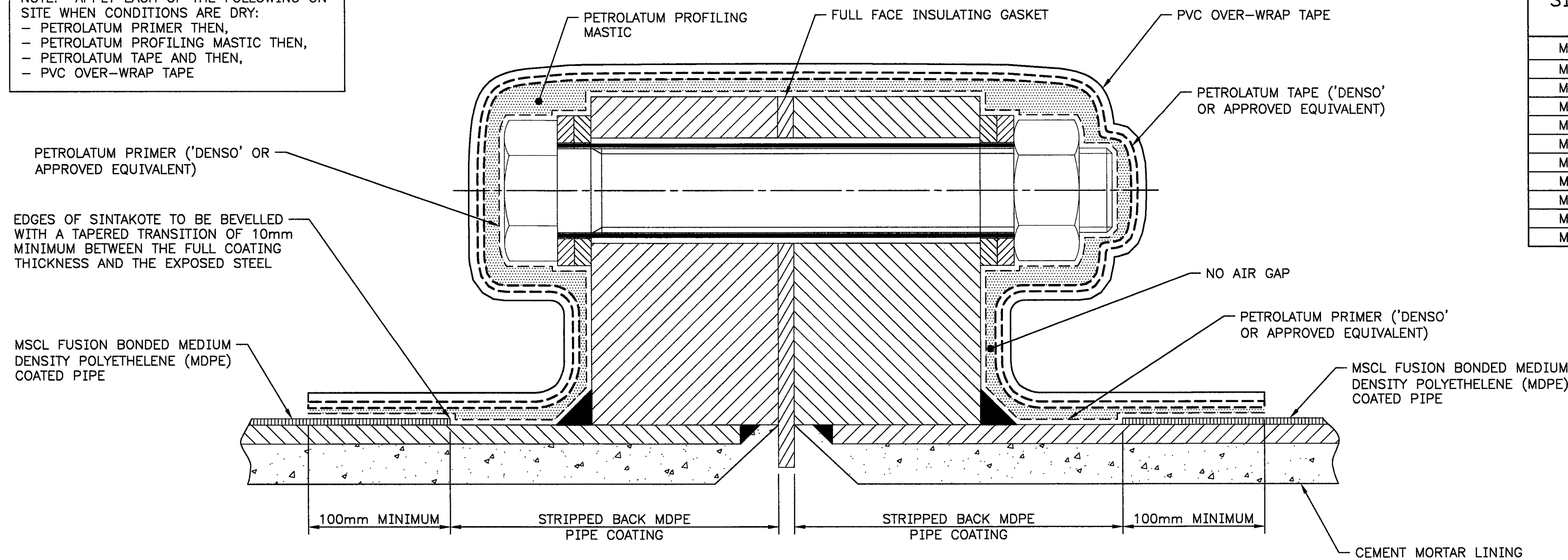
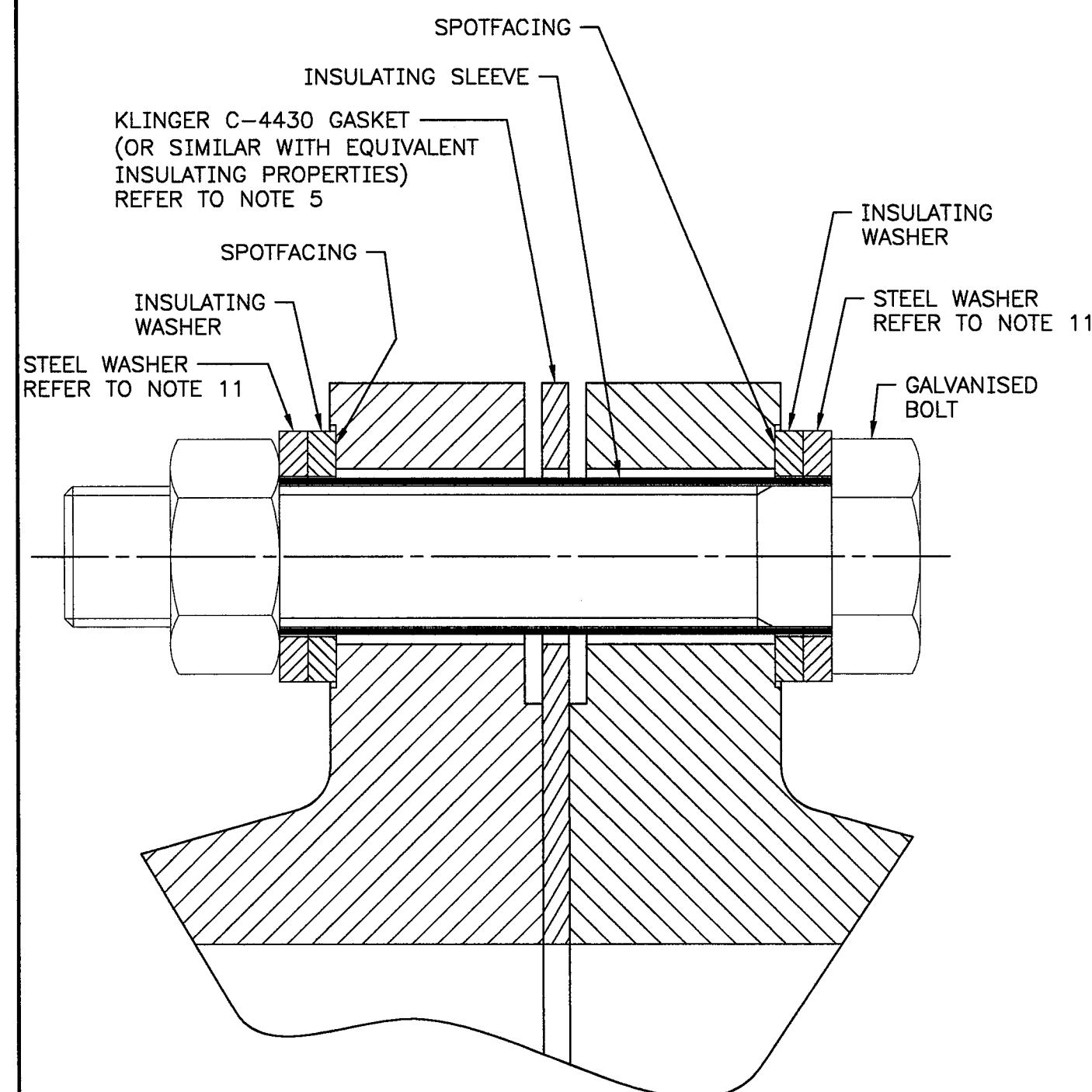


### ISOLATION JOINT TYPES

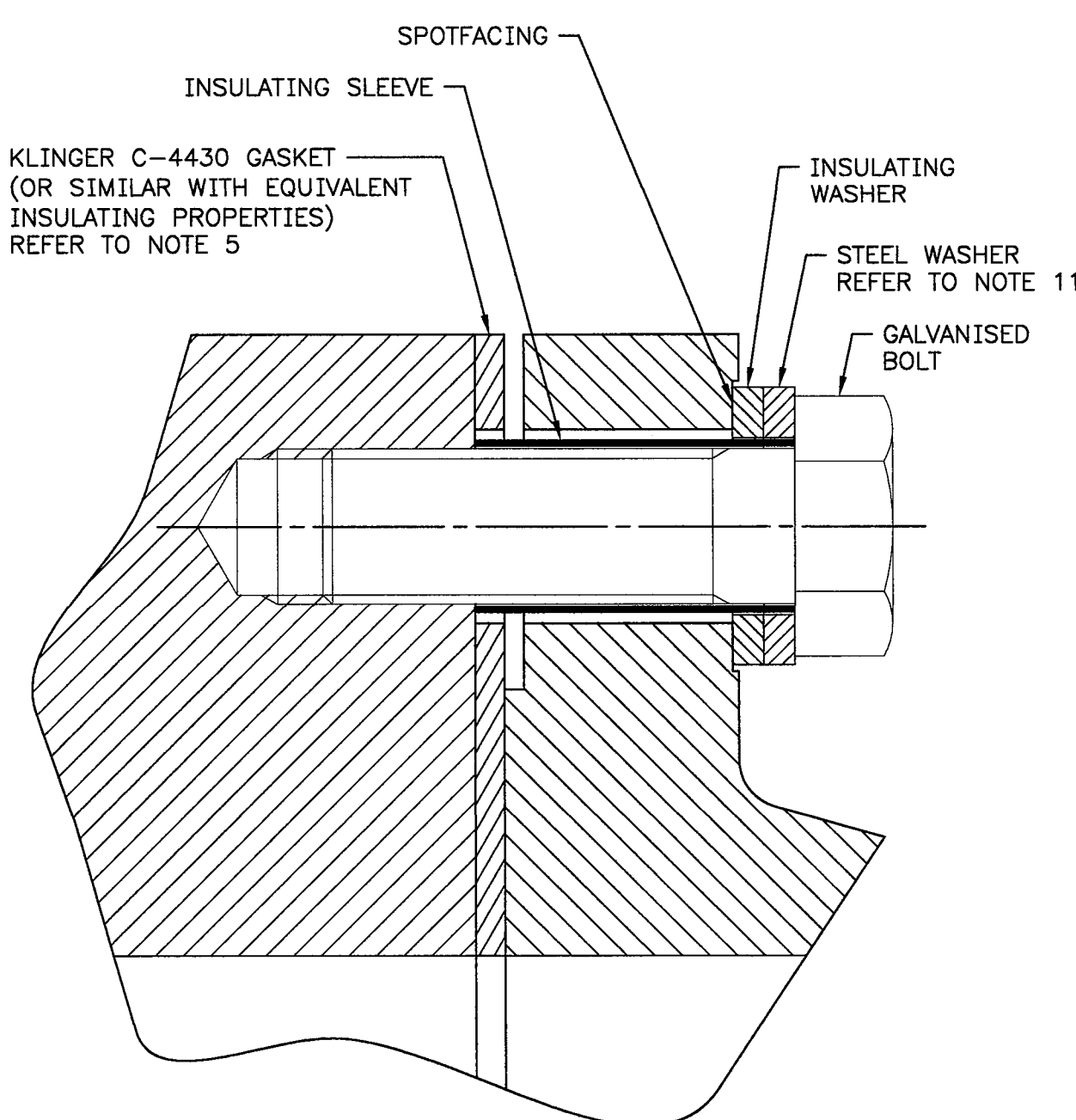
NOTE: APPLY EACH OF THE FOLLOWING ON SITE WHEN CONDITIONS ARE DRY:  
 - PETROLATUM PRIMER THEN,  
 - PETROLATUM PROFILING MASTIC THEN,  
 - PETROLATUM TAPE AND THEN,  
 - PVC OVER-WRAP TAPE



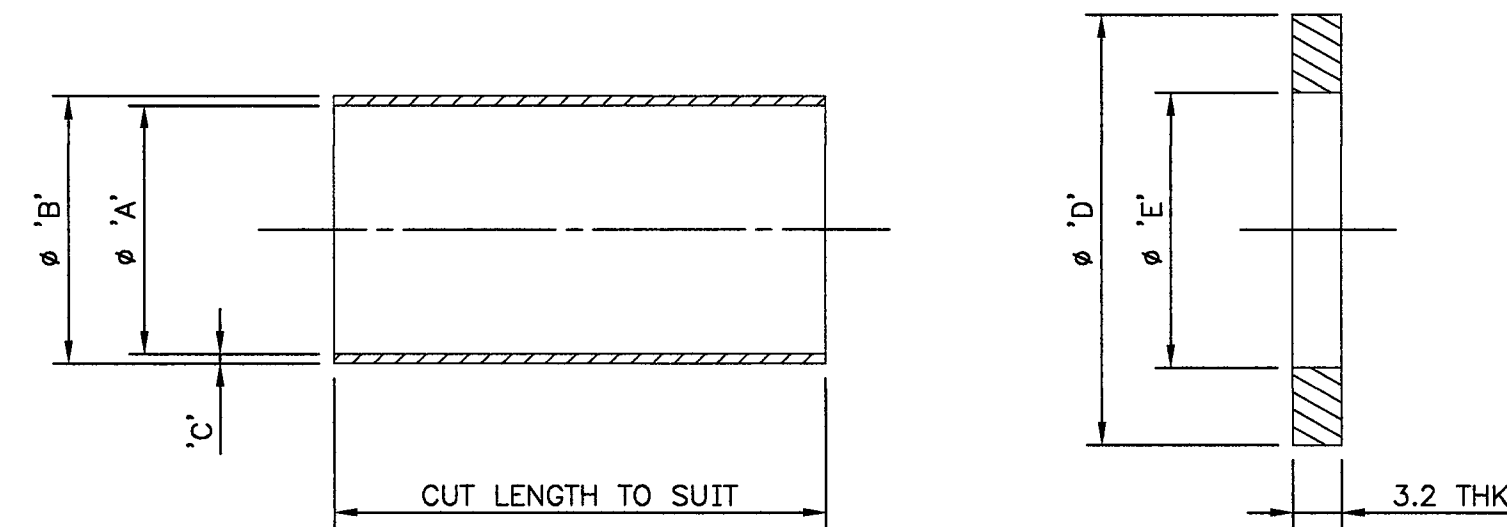
### BURIED PIPE JOINTS ONLY - WRAPPING ARRANGEMENT



### TYPICAL THROUGH BOLT ISOLATING JOINT ARRANGEMENT



### TYPICAL TAPPED FLANGE ISOLATING JOINT ARRANGEMENT

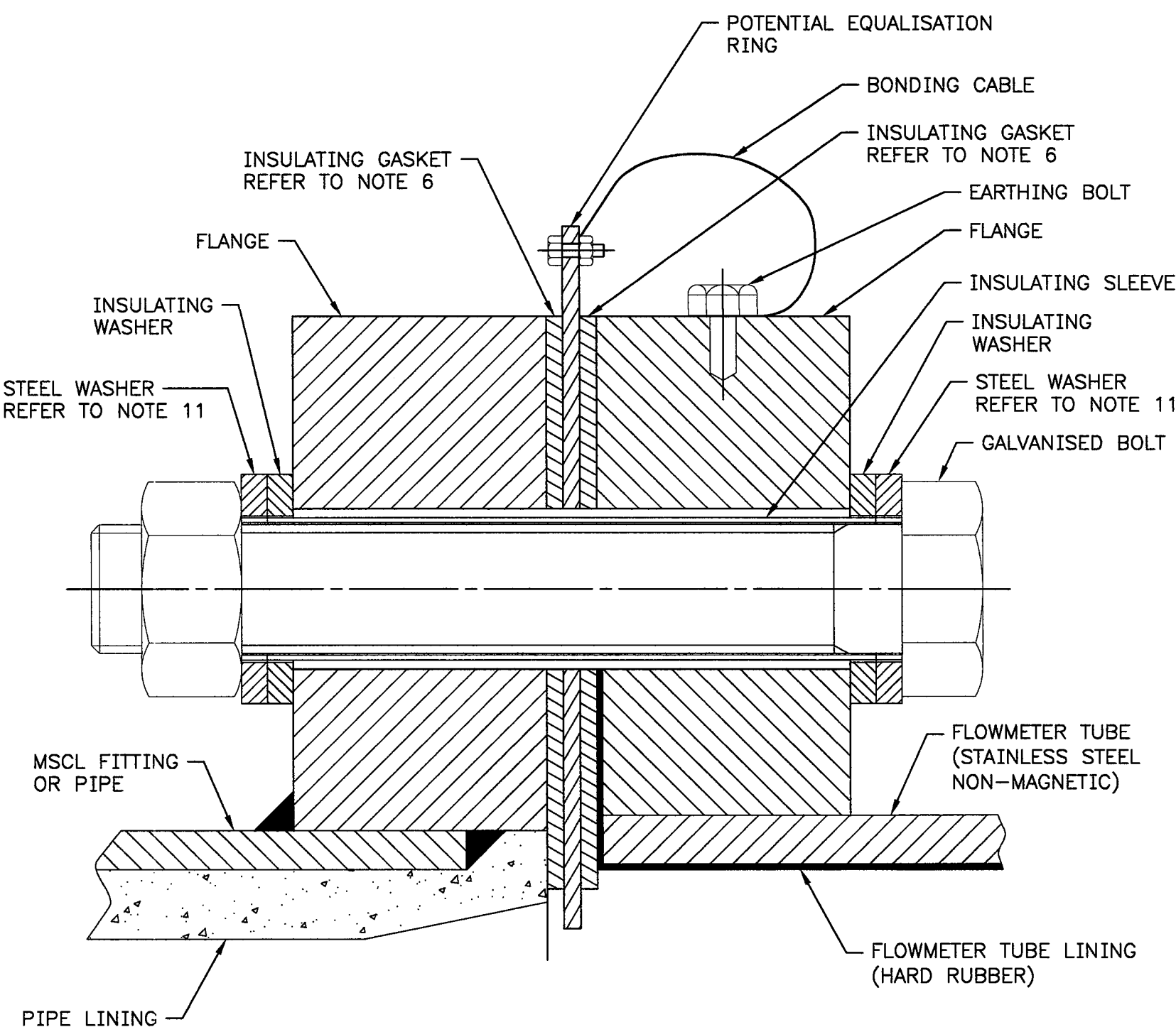


BOLT SIZE	'A' MIN. I.D. (mm)	'B' MAX. I.D. (mm)	'C' MIN. WALL THICKNESS (mm)
M16	16.48	17.53	0.38
M20	20.48	21.51	0.38
M24	24.48	25.53	0.38
M27	27.48	29.51	0.76
M30	30.48	32.51	0.76
M33	33.48	35.51	0.76
M36	36.48	38.52	0.76
M39	39.48	41.50	0.76
M45	45.48	47.52	0.76
M52	52.48	54.51	0.76
M56	56.48	61.52	0.76

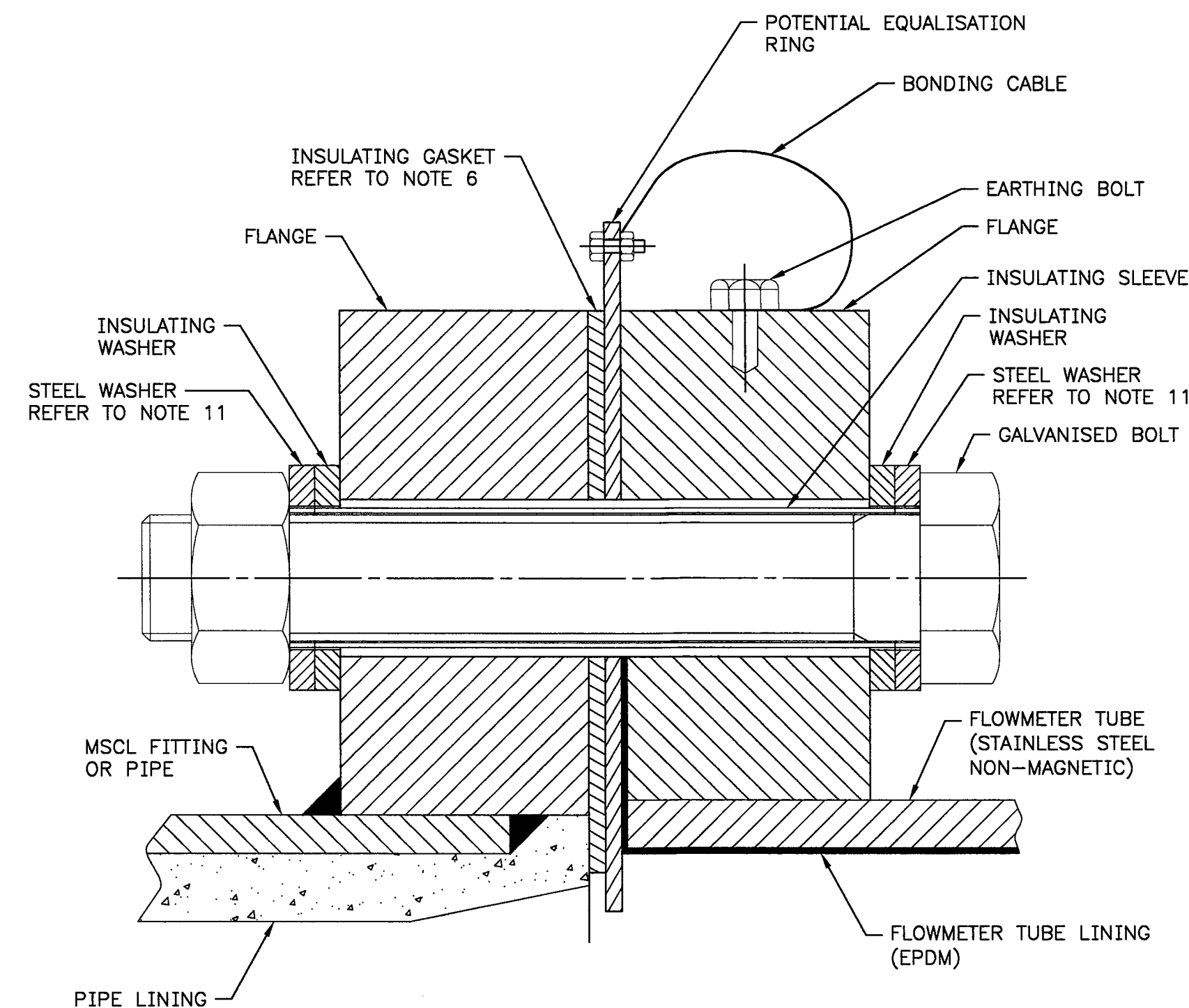
BOLT SIZE	'D' O.D. (mm)	'E' APPROX. I.D. (mm)
M16	34.93	18.64
M20	44.45	24.99
M24	50.80	27.79
M27	55.55	31.75
M30	61.90	34.93
M33	66.68	37.31
M36	73.03	41.28
M39	73.03	41.28
M45	88.90	50.01
M52	95.25	55.55
M56	107.95	60.33

### GENERAL NOTES

- FLANGE INSULATING KIT AS MANUFACTURED BY SAVCOR (OR EQUIVALENT)
- SITE MEASURE FLANGE THICKNESSES PRIOR TO ORDERING KIT.
- GASKET O.D. TO EQUAL FLANGE O.D.
- MATERIALS-  
 INSULATING SLEEVE: MYLAR-CLEAR  
 TRANSLUCENT-POLYESTER RESIN INSULATING WASHER: G10
- GASKET TO BE 3mm FULL FACE COMPRESSED FIBRE KLINGER C-4430 OR APPROVED EQUIVALENT.
- GASKET TO BE 3mm FULL FACE ELASTOMERIC NOVUS RED SILICON (60 DURO) OR APPROVED EQUIVALENT.
- GASKET MATERIAL TO HAVE DIELECTRIC STRENGTH OF AT LEAST 15.2kV/mm.
- WRAPPING TO BE USED ON BURIED FLANGES ONLY AS PER WATER CORPORATION TECHNICAL SPECIFICATION: L1 (SYSTEM B).
- REFERENCE DRAWINGS:  
 EG20-4-2: BURIED MAGFLOW METER INSTALLATION STEEL PIPELINES.
- FLANGE ASSEMBLY AND BOLT TORQUING SHALL BE IN ACCORDANCE WITH WATER CORPORATION STANDARD DS 38-02.
- THIS STANDARD IS FOR USE WITH GALVANIZED BOLTS AND WASHERS ONLY IN ACCORDANCE WITH DS38-02. SELECTED BOLTS AND WASHERS MUST NOT INTERFERE WITH INSULATING INTEGRITY OF THE JOINT. ENSURE SMOOTH FINISH TO WASHER FACES.
- IN THE CASE OF VALVE FLANGE IRREGULARITIES THE USE OF A SECOND STEEL WASHER INSTEAD OF SPOTFACING IS ACCEPTABLE.
- FLANGED ISOLATION JOINTS USED FOR CATHODIC PROTECTION SHALL BE PROVIDED WITH INSULATED FLANGE TEST POINTS IN ACCORDANCE WITH LL33-054-004.



### FLOWMETER ISOLATION JOINTS ONLY - EBONITE (HARD RUBBER) LINER 2 INSULATING GASKETS



### FLOWMETER ISOLATION JOINTS ONLY - EPDM LINER 1 INSULATING GASKET

01/2018

SHEET TITLE & GENERAL NOTES REVISED ALSO FLOWMETER IJ WITH EPDM LINED PIPE & EBONITE IDENTIFIED FOR FLOWMETER IJ & SOME GENERAL NOTES ADDED

FR

GRD

SL

DESIGN SURVEY NONE

VERTICAL DATUM NONE

DES CALC D. HEATON

NORTH POINT

RECOMMENDED 01/12/2009

M.L.HOLMES

ENGINEERING CONSULTANT

APPROVED 01/12/2009

S.W.EVANS

PROJECT MECHANICAL ENGINEER

02/2014

WRAPPING SYSTEM AMENDED

SL

MB

SE

ASCON SURVEY NONE

COORDINATE SYS NONE

DES CHD M. CALLARD

DRN L. ZUIDEMA

Q.C. CHD M. KEATING

03/2010

REDRAWN IN AUTOCAD

AC

GC

MC

DES REF

ISSUE

DATE

GRID

REVISION

DRN

REC

APPD

ENGINEERING



WATER CORPORATION

MECHANICAL STANDARD DRAWING

MECHANICAL DESIGN STANDARD

DS38-02 – FLANGE ISOLATION JOINTS

FILE

PLAN

CAD

ISSUE

PROJECT

JZ39-91-10

D

ORIGINAL SHEET SIZE

A1

MF 24 JAN 2018