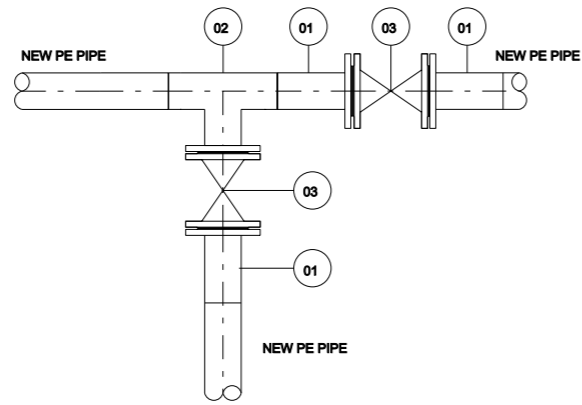


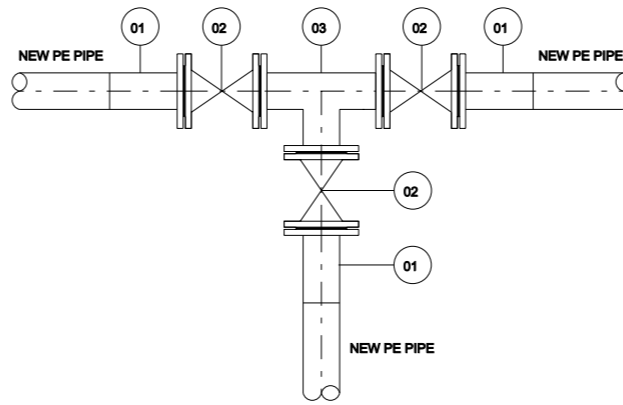
1 VALVE TEE CONNECTION

SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	PE BUTT WELDED TEE WITH FLANGED BRANCH	1
02	SLUCE VALVE	1
03	PE STUB FLANGE	1



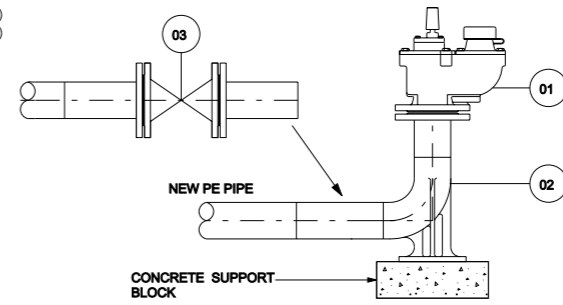
2 VALVE TEE CONNECTION

SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	PE STUB FLANGE	3
02	PE BUTT WELDED TEE WITH FLANGED BRANCH	1
03	SLUCE VALVE	2



3 VALVE TEE CONNECTION

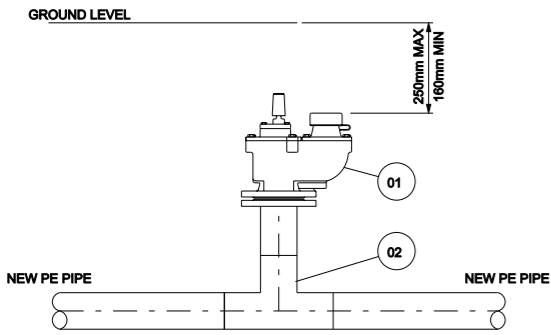
SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	PE STUB FLANGE	3
02	SLUCE VALVE	3
03	ALL FLANGED TEE	1



END HYDRANT OR WASHOUT

SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	HYDRANT	1
02	PE BUTT WELDED DUCKFOOT BEND KIT - RISER CUT TO SUIT	1
03	OPTIONAL VALVE - CONSULT NETWORKS	1

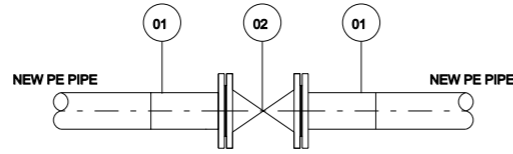
NOTE: REDUCING SPIGOT MAY BE REQUIRED



INLINE HYDRANT OR WASHOUT

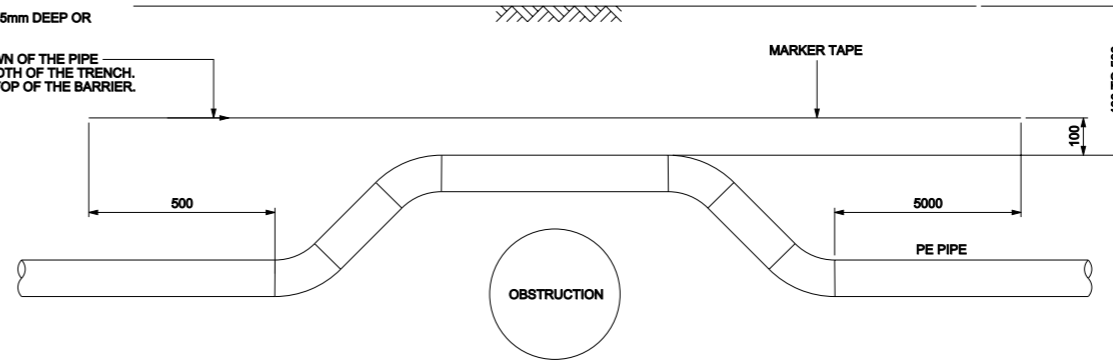
SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	HYDRANT	1
02	PE BUTT WELDED IN LINE TEE KIT RISER CUT TO SUIT	1

PROTECTION OPTIONS:  
 4mm THICK GALVANISED STEEL CHEQUER PLATE OR  
 3mm THICK GALVANISED STEEL SHEETING PROFILED TO 35mm DEEP OR  
 12mm THICK LOW DENSITY POLYETHYLENE  
 THE BARRIER SHALL BE PLACED 100mm ABOVE THE CROWN OF THE PIPE AND SHALL BE AT LEAST 350mm WIDE OR THE ACTUAL WIDTH OF THE TRENCH. THE APPROPRIATE MARKER TAPE SHALL BE PLACED ON TOP OF THE BARRIER.

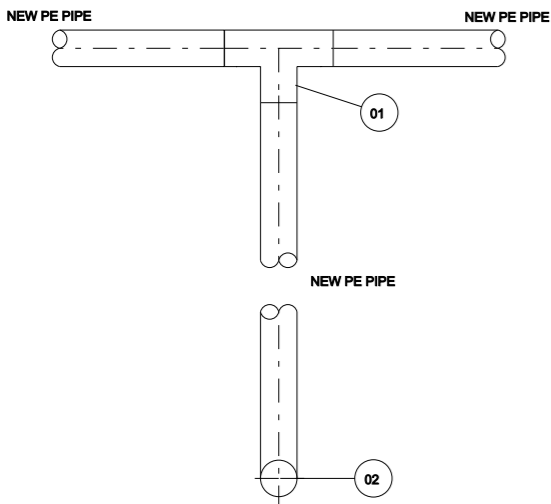


INLINE SLUCE VALVE

SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	PE STUB FLANGE	2
02	SLUCE VALVE	1

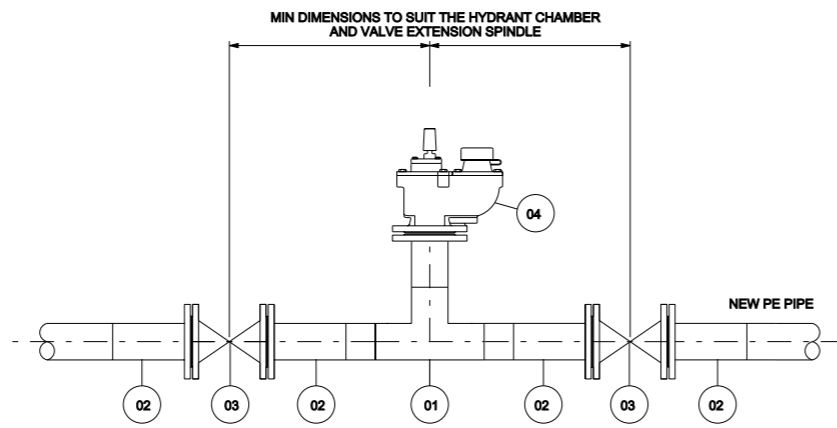


PROTECTION OF SHALLOW PIPES CROSSING OR LONGITUDINAL LAY



HYDRANT ON LEG

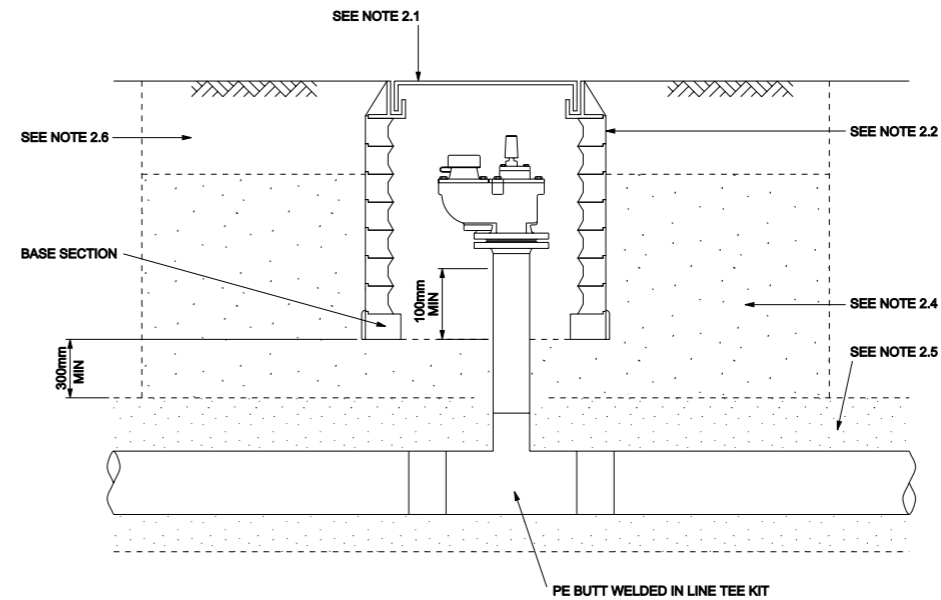
SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	PE BUTT WELDED TEE	1
02	REFER TO END HYDRANT DETAILS	1



INLINE XOx INSTALLATION

SCHEDULE OF PIPES AND FITTINGS		
MK	DESCRIPTION	NO OF
01	PE BUTT WELDED IN LINE TEE KIT	1
02	PE STUB FLANGE	4
03	SLUCE VALVE	2
04	HYDRANT	1

WHERE AN EXISTING BOUNDARY VALVE IS RETAINED ONLY ONE NEW VALVE IS REQUIRED AND PIPE FITTINGS TO BE MODIFIED TO SUIT



CHAMBER CONSTRUCTION FOR WASHOUT, FIRE HYDRANT OR DISINFECTION POINT < 355mm PE

DO NOT SCALE - IF IN DOUBT ASK

NOTES :

1.0 GENERAL

1.1 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

1.2 WASHOUTS SHALL BE INCLUDED AS DETAILED IN WN02 WATER MAINS DESIGN STANDARD

1.3 FINAL ARRANGEMENT OF VALVES AND FITTINGS SHALL SUIT THE STREET ARRANGEMENT.

2.0 CHAMBER CONSTRUCTION DETAIL :

2.1 HEAVY DUTY DUCTILE IRON SURFACE BOX 430 x 280 CLEAR OPENING WITH THAMES WATER LOGO AND APPROPRIATE BADGE eg. WO, FH.

2.2 430 x 280 CLEAR OPENING RECYCLED POLYMER CHAMBER SECTIONS.

2.3 THE SURFACE BOX SHALL BE POSITIONED SUCH THAT WHEN A KEY AND STANDPIPE ARE FITTED TO THE HYDRANT, EQUAL CLEARANCES EXIST AROUND THE SIDES OF THE BOX.

2.4 TYPE 1 BACKFILL WELL COMPACTED MINIMUM THICKNESS BELOW CHAMBER 300.

2.5 10mm SINGLE SIZE PEA SHINGLE BED AND SURROUND TO PIPE MINIMUM 150 ABOVE PIPE REF DRG AM-DRG-WN-02020.

2.6 REINSTATEMENT LAYER.

3.0 PIPEWORK :

3.1 ALL FLANGED JOINT BOLT SETS SHALL CONFORM TO WIS4-52-03.

3.2 THE HYDRANT AND VALVES SHALL BE INSTALLED SO THAT THEY ARE TRULY PLUMB.

3.3 CONCRETE SUPPORT BLOCK SHALL BE CAST TO HYDRANT TEES AND SLUCE VALVES

GUIDANCE NOTES:

A. THIS DRAWING DETAILS BEST PRACTICE AND SHALL BE ADHERED TO WHERE EVER PRACTICABLE. DEROGATION OF THE CONTENT ON INTENT OF THIS DRAWING REQUIRES WRITTEN CONSENT FROM THE TECHNICAL LEAD.

B. WHERE APPLICABLE ALL MATERIALS SHALL BE FROM THAMES WATER FRAMEWORK SUPPLIERS.

C. EXTERNAL PROTECTION FOR BURIED FLANGED JOINTS, FLANGE ADAPTORS AND COUPLINGS SHALL BE TYPE P1 AS DEFINED IN CLAUSE 5.14 OF CESWI 6TH EDITION. THIS PROTECTION SHALL COVER THE FLANGE AND ALL NUTS, BOLTS AND THREADS.

D. THE PIPE MATERIAL FOR USE IN CONTAMINATED LAND SHALL BE A THAMES WATER APPROVED BARRIER PIPE SYSTEM WHICH INCLUDES COMPATIBLE PIPE FITTINGS, JOINT PROTECTION AND METER BOXES.

DATA OWNER	ASSET MANAGEMENT STANDARDS MANAGER
TECHNICAL LEAD (S)	MICHAEL BRIGHT
DOCUMENT AUTHOR	TECHNICAL INFORMATION
AUTHORISED BY	STANDARDS BOARD
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**Thames Water**  
**ASSET MANAGEMENT**  
 CLEAR WATER COURT  
 VASTERN ROAD, READING RG1 8DB

Location Code:	OS Reference:	Security Reference:	Drawn By:
Project Group: TECHNICAL STANDARDS		Sub Process:	
Location / Town:			
Site Name:			
Project Name: STANDARD DRAWINGS - MANDATORY			
Contract Name: WATER NETWORK			
Drawing Title: DISTRIBUTION MAIN - PE PIPE STANDARD DETAILS			

Drawing No.: AM-DRG-WN-02270	Scale: NTS	Sheet Size: A1	Rev: 1.0
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