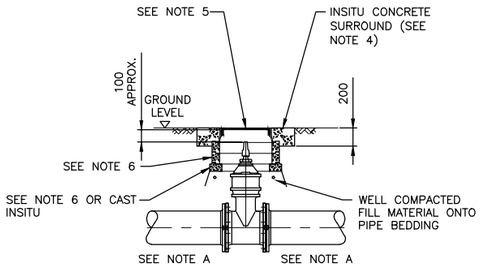
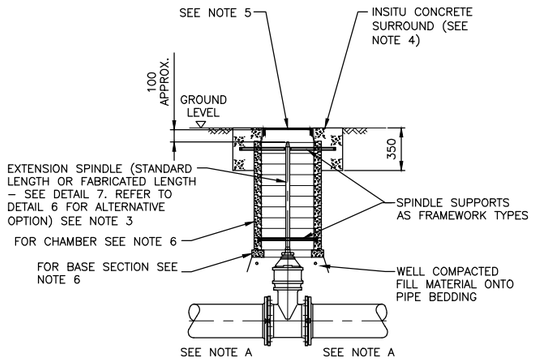
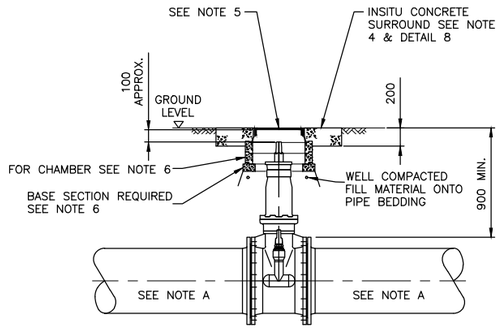


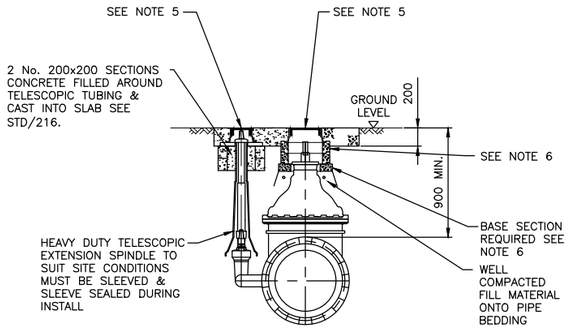
DETAIL 1
SCALE 1:25 (80–300 DIA. UP TO PN25)



DETAIL 2
SCALE 1:25 (80–300 DIA UP TO PN 25)

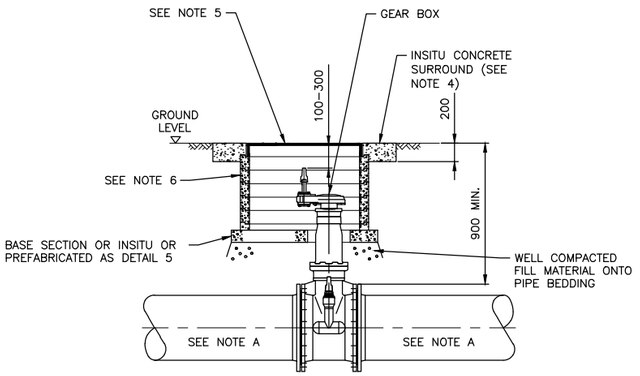


SIDE VIEW

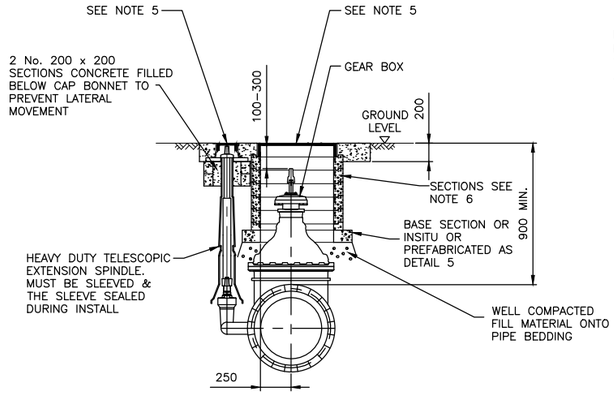


DETAIL 3
SCALE 1:25 (350–600 DIA. WITHOUT GEARING)

END VIEW

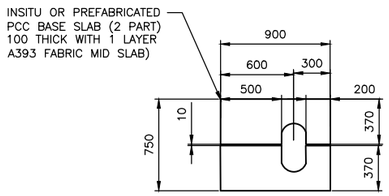


SIDE VIEW



DETAIL 4
SCALE 1:25 (350–600 DIA. WITH GEARING)

END VIEW



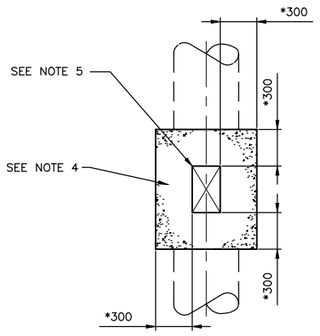
DETAIL 5
SCALE 1:25 (350–600 DIA. WITH GEARING)

NOTE A

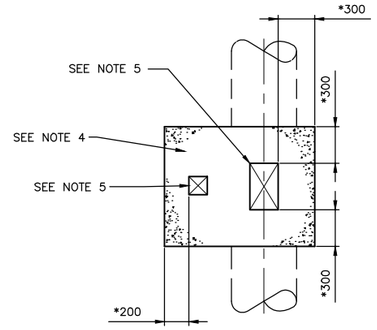
VALVE TO BE RESTRAINED TO WITHSTAND FULL DESIGN FORCE (EITHER MAX WORKING PRESSURE OR MAX SUPPRESSED SURGE PRESSURE). TO BE RESTRAINED USING EITHER METHOD BELOW.

1.MASS CONCRETE ANCHOR BLOCK CAST AROUND FLANGED SPIGOT WITH CENTRALLY WELDED THRUST FLANGE.
2.ANCHOR GASKETS OR MECHANICAL ANCHOR JOINTS.
3.USE OF CONTINUOUS PIPE I. E. WELDED STEEL OR POLYETHYLENE.

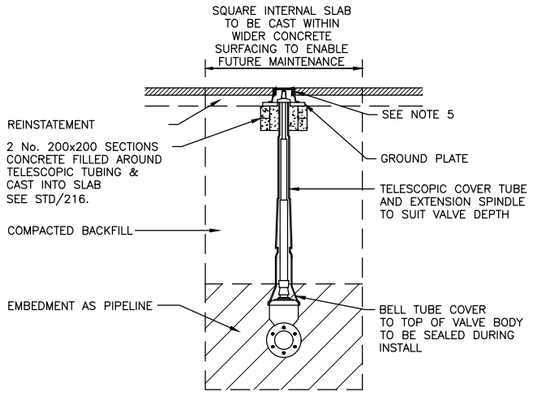
ALL METHODS REQUIRE DESIGNING TO ENSURE SUITABLE RESTRAINT GIVEN.



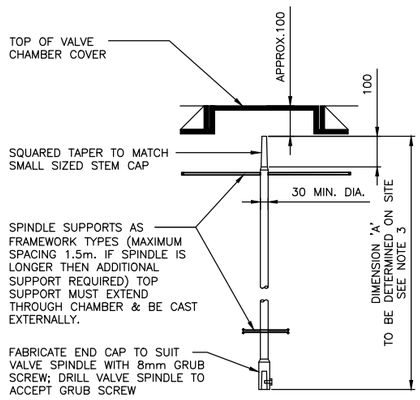
DETAIL 8
SCALE 1:25 (80–300 DIA. NON–GEARED)
* DIMENSIONS APPROX. (REDUCED TO 200mm ALL AROUND WHERE TELESCOPIC TYPE USED)
CONCRETE SURROUND NOT REQUIRED IN HIGHWAY



DETAIL 9
SCALE 1:25 (350–600 DIA. NON–GEARED WITH BYPASS)
* DIMENSIONS APPROX.
CONCRETE SURROUND NOT REQUIRED IN HIGHWAY.



DETAIL 6 – PREFERRED OPTION
SCALE 1:25 (80–300 DIA. & BYPASS VALVES)



DETAIL 7
N.T.S.

DETAIL DESCRIPTIONS	
DETAIL No.	DESCRIPTION
DETAIL 1	TYPICAL GATE VALVE (80–300)
DETAIL 2	GATE VALVE WITH EXTENSION SPINDLE (80–300)
DETAIL 3	RESILIENT SEATED GATE VALVE WITH BYPASS VALVE (350–600)
DETAIL 4	GEARED GATE VALVE WITH BYPASS VALVE (350–600)
DETAIL 5	INSITU/PREFABRICATED BASE SLAB DETAIL – ALL GEARED GATE VALVES
DETAIL 6	TELESCOPIC VALVE EXTENSION SPINDLE (80–300) PREFERRED OPTION
DETAIL 7	GMS OR EPOXY COATED VALVE EXTENSION SPINDLE (80 & ABOVE)
DETAIL 8	GATE VALVE COVER SLAB 80–300
DETAIL 9	GATE VALVE WITH BYPASS VALVE – COVER SLAB 350–600

SITE ID

NGR

NOTES

1. ANY MAPS SHOWN ON THIS DRAWING ARE REPRODUCED FROM THE ORDNANCE SURVEY MAP WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT RESERVED, LICENCE No 100019539
2. UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES AOD.
3. MILD STEEL EXTENSION SPINDLE REQUIRED WHERE VALVE CAP EXCEEDS 300 BELOW COVER. VALVE STEM, EXTENSION SPINDLE AND CAP TO BE PRE–DRILLED AND FITTED WITH SET BOLTS TO ENSURE POSITIVE AND PERMANENT FIXING. SPINDLE LENGTH TO ENSURE CAP IS APPROX. 100 BELOW COVER. CONTRACTOR SHALL CHECK EXACT DIMENSIONS ON SITE PRIOR TO FABRICATION.
4. COVER SLAB IN FIELD, VERGE & STONED TRACK: FRAME TO BE SET IN AN IN–SITU CONCRETE SURROUND AND REINFORCED WITH H10 BARS LAPPED AT SIDES AND CONTINUOUS AROUND CORNERS OR A393 FABRIC. IN HIGHWAY NO CONCRETE SURROUND UNLESS OTHERWISE SPECIFIED. SEE DETAIL 6 & 7.
5. COVER AND FRAME: FOR SPEC SEE STANDARD DRAWING STD/216.
6. PCC CHAMBER SPECIFICATION: SEE STANDARD DRAWING STD/216. FOR MAIN VALVE, WHEN USING PLASTIC SECTIONS, 'TOP' SECTIONS ALSO REQUIRED.
7. ALL CONCRETE TO BE MIN. GRADE C20/25.
8. MILD STEEL GALVANISED TO BS EN ISO 1461.
9. VALVES IN DETAIL 4 SHOWN WITH A ROTORK 1S5 GEARBOX. ACTUAL GEARBOX SPECIFICATION TO BE PROVIDED BY VALVE SUPPLIER.
10. RESILIANT SEATED VALVES TO BE USED FOR 80–300 UP TO PN25, 350–600 UP TO PN16. ABOVE THESE RATINGS METAL FACE TO BE USED.
11. 80–300 DIA. GEARING NOT REQUIRED.
12. FOR ALL RESILIENT SEATED VALVES UP TO 600 DIA. GEARING NOT REQUIRED
13. GEARING TO BE CONSIDERED FOR ALL SITUATIONS WHERE METAL FACED VALVES ARE USED.
14. SEE STANDARD DRAWING STD/218 FOR RESTRAINT & THRUSTING OPTIONS.
15. ALL VALVES TO BE CLOCKWISE OPENING.
16. TO BE READ IN CONJUNCTION WITH DS643.

E	DRAWING UPDATED	CAM	CAM	SWRN	09/03/2020
D	COMPANY LOGO CHANGED	CAM	CAM	SWRN	17/09/2019
C	COMPLETE REDRAW	CAM	CJN	JZH	19/03/2013
MK	REVISIONS	DRN	CHK	APP	DATE

POTABLE WATER
SLUICE VALVE
INSTALLATIONS

STANDARD DRAWING

ORIGINAL DRAWING SIZE A1

	INITIALS	DATE	SCALES
DESIGNED:	SC	23/04/2007	N.T.S.
DRAWN BY:	CN	23/04/2007	

DRAWING NUMBER	REV.
STD/211	E

Wessex Water
YTL GROUP