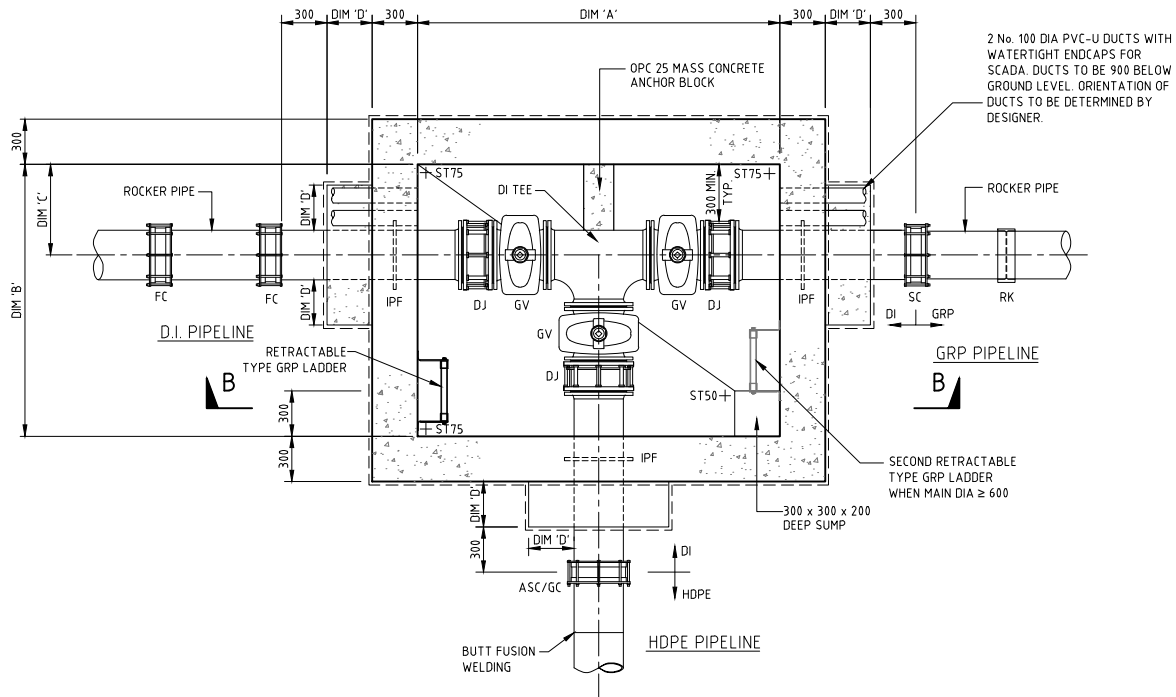
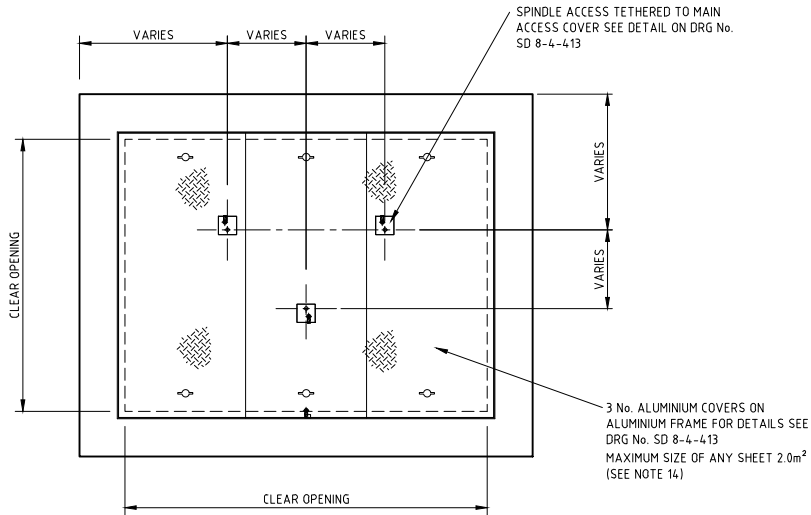


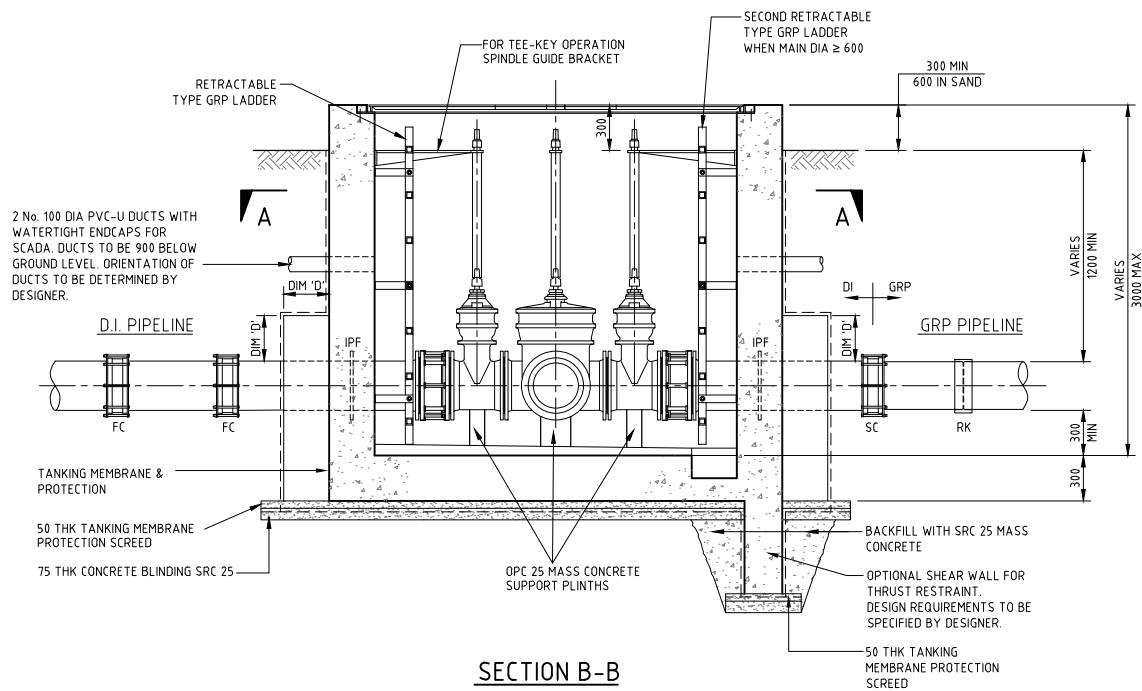
ALL CHAMBERS SHALL BE LOCATED OUT OF CARRIAGEWAY IN ACCESSIBLE AREA.



PLAN



PLAN AT ROOF LEVEL



SECTION B-B

VALVE CHAMBER - THREE VALVES
HDPE, DI OR GRP

(300mm DIA MAINS AND BRANCHES SHOWN)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH THE ENGINEER.
3. ALL JOINTS BETWEEN CONCRETE AND PIPES SHALL BE WATERTIGHT.
4. ALL EXTERNAL FACES TO BE TANKED IN ACCORDANCE WITH SPECIFICATION FOR TANKING DETAILS SEE DRG No. SD 8-4-103.
5. ALL INTERNAL SURFACES ARE TO BE COATED AS SPECIFIED IN QCS, USING PAINT COLOUR 00A05 TO BS 4800.
6. ALL DUCTILE IRON PIPEWORK TO BE WRAPPED IN ACCORDANCE WITH THE SPECIFICATION.
7. ALL STRUCTURAL CONCRETE SHALL BE MINIMUM GRADE SRC 40 UNLESS OTHERWISE NOTED.
8. SEE DRG No SD 8-4-106 FOR STRUCTURAL NOTES.
9. 7mm NEOPRENE PAD SHALL BE PLACED BETWEEN ALL VALVES AND CONCRETE SUPPORT PLINTHS.
10. ALL PIPES, VALVES AND FITTINGS WITHIN CHAMBERS SHALL BE DUCTILE IRON. SUITABLE FLEXIBLE COUPLINGS SHALL BE USED TO CONNECT TSE MAINS TO THESE DUCTILE IRON PIPES.
11. VALVE SPINDLES TO BE EXTENDED TO 100 BELOW COVER LEVEL FOR TEE KEY OPERATION. SUPPORT BRACKET FOR SPINDLES TO BE PROVIDED WHEN NECESSARY. VALVE SPINDLE EXTENSIONS ARE NOT REQUIRED WHEN DEPTH TO TOP OF VALVE FROM COVER IS LESS THAN 500.
12. THE CONTRACTOR SHALL PROVIDE THE PIPE SCHEDULE OF FITTINGS FOR THE STRUCTURE PRIOR TO PLACEMENT OF THE ORDER.
13. GATE OR BUTTERFLY VALVES SHALL BE RATED FOR 16 BARS. BUTTERFLY VALVES TO BE USED ON PIPE ABOVE 300.
14. CONCRETE COVER SLAB WITH HEAVY DUTY D.I. COVER TO BE USED WHEN CHAMBER IS SUBJECT TO VEHICLE TRAFFIC. SEE DRG NO. SD 8-4-414.
15. CHAMBER SCHEDULE BASED ON EQUAL MAIN DIAMETERS IN CHAMBER. ALL OTHER CHAMBER COMBINATIONS TO BE DESIGNED BASED ON INDIVIDUAL CASES.
16. PROVIDE A MINIMUM CLEARANCE OF 300 BETWEEN CHAMBER WALLS AND OUTER FACE OF FLANGE, OR VALVES FOR PIPES LESS THAN 600 DIA. AND 600 CLEARANCE FOR PIPE SIZES 600 DIA AND GREATER.
17. ALL BURIED FLEXIBLE COUPLINGS, FLANGED ADAPTORS AND OTHER FERROUS FITTINGS TO BE PROTECTED WITH MASTIC FILLER, MASTIC TAPE AND LAMINATED TAPE AS PER QCS.
18. ROCKER PIPE LENGTHS TO BE 600 OR 1.5 x DIAMETER WHICHEVER IS THE GREATER.
19. CHAMBER SCHEDULES ARE BASED ON DI FITTINGS FROM BS EN 545:2010.
20. RETRACTABLE TYPE GRP LADDER WITH SAFETY CAGE IF THE CHAMBER DEPTH IS MORE THAN 3.5 METERS.
21. CHAMBERS WITH ALUMINUM FRAME & COVERS AND ARE LEVELLED ABOVE FINISHED GROUND LEVEL SHALL HAVE ALUMINUM FLASHING OF THE WATER PROOF MEMBRANE AND PROTECTION BOARD.

LEGEND:

IPF	INTEGRAL PUDDLE FLANGE
GV	GATE VALVE
DI	DUCTILE IRON
ST	SCREED THICKNESS
C/W	COMPLETE WITH
FGL	FINISH GROUND LEVEL
DJ	DISMANTLING JOINT
FC	D.I. FLEXIBLE COUPLERS
RK	GRP REKA COUPLING
SC	STEPPED COUPLING
ASC	ANCHORED STEPPED COUPLING
SFA	STUB FLANGE ASSEMBLY (MAXIMUM 8 BAR WORKING PRESSURE)
GC	GRIP COUPLER

VALVE CHAMBER SCHEDULE - HDPE					
PIPE DIA O.D.	DI FITTINGS	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
125	100	1900	1400	450	300
180	150	2100	1500	450	300
250	200	2400	1700	500	300
315	250	2400	1700	500	300
355	300	2600	1900	550	300

* ASSUMING GATE VALVE

VALVE CHAMBER SCHEDULE - D.I. / G.R.P.				
PIPE DIA I.D.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
* 300	2600	1900	550	300
400	2500	1900	600	300
500	2700	2000	650	300
600	3000	2500	1000	500
800	3300	2800	1150	500
900	3500	3000	1200	500
1000	3900	3200	1250	500
1200	4300	3500	1350	500

6	SEP 19	ISSUED FOR USE	
5	APR 19	ISSUED FOR USE	
4	01 MAR 19	UPDATED ISSUE	
3	31 MAR 16	ISSUED FOR USE	
2	16 SEP 15	ISSUED FOR USE	
1	22 JUN 15	ISSUED FOR USE	
0	15 SEP 13	ISSUED FOR USE	

Rev.	Date	Revision Details	Appd.
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هيئة الأشغال العامة
Public Works Authority

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PROJECTS AFFAIRS

QCS Section:

Section 8 - Drainage Works

Part 4 - Pipeline Installation

Drawing Title:

TSE

VALVE CHAMBER

(THREE VALVES)

Approved:

Sheet No: 1 OF 1

Date: APRIL 2019

Scale: 1:25 ON A1

Drawing Number:

SD 8-4-402

Revision:

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