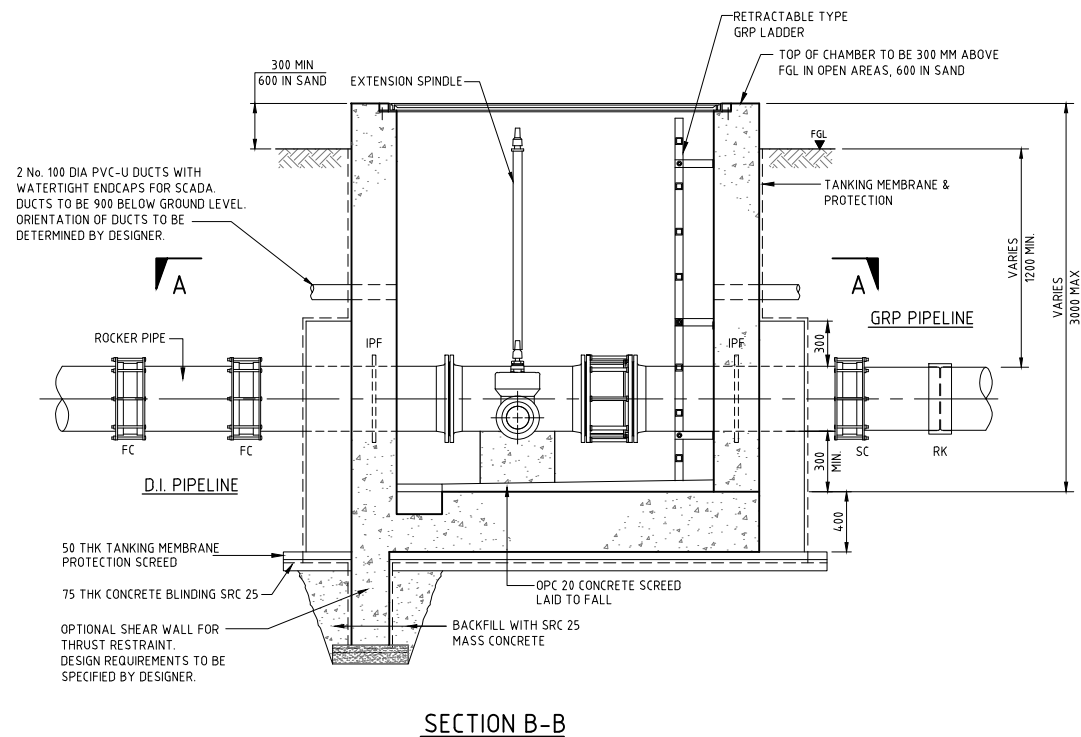
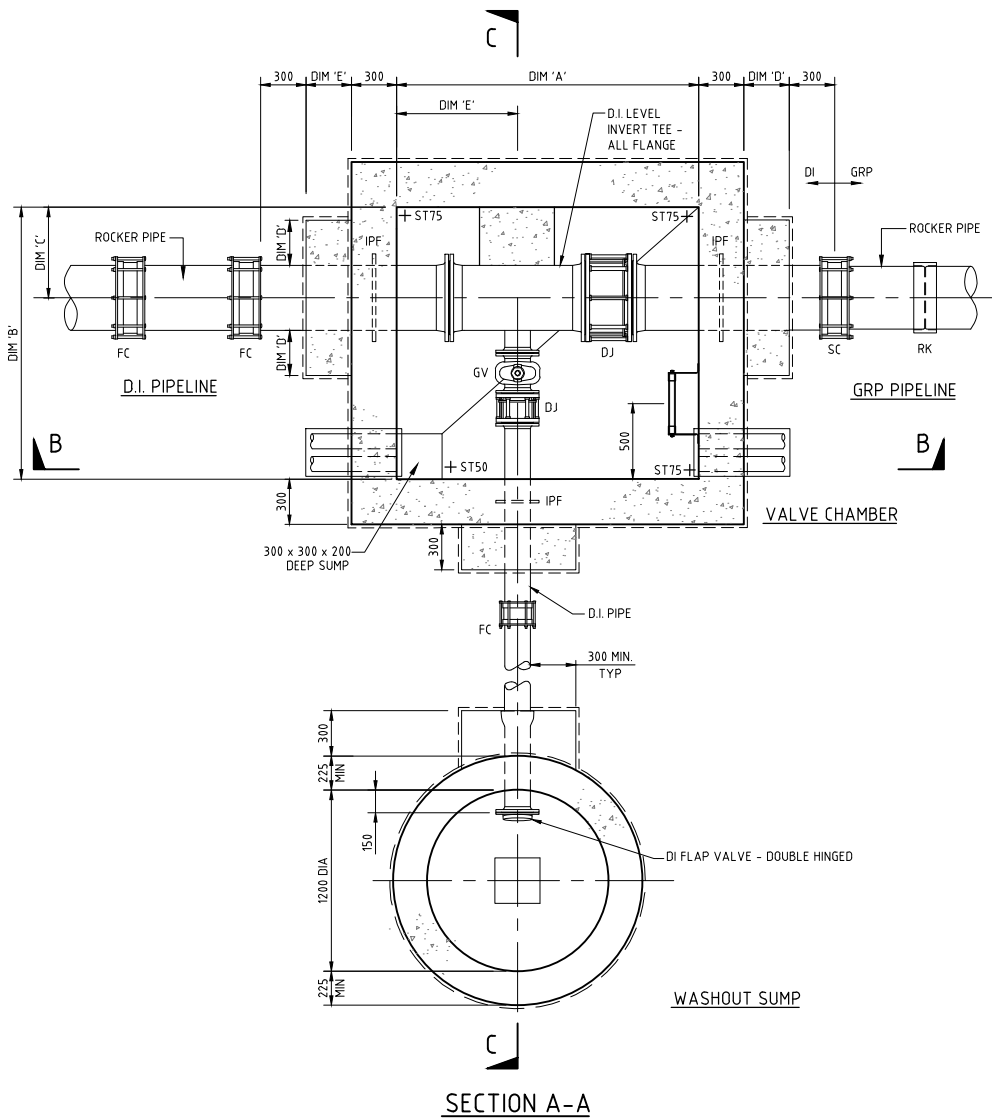
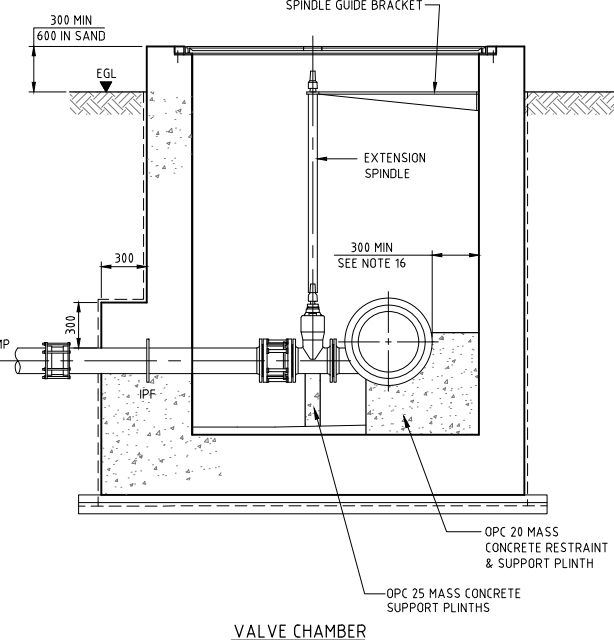
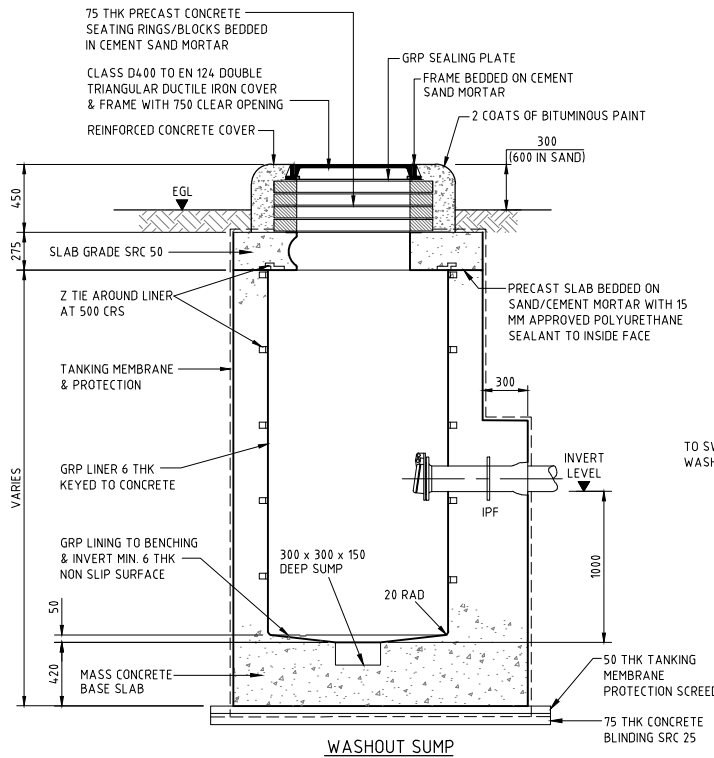
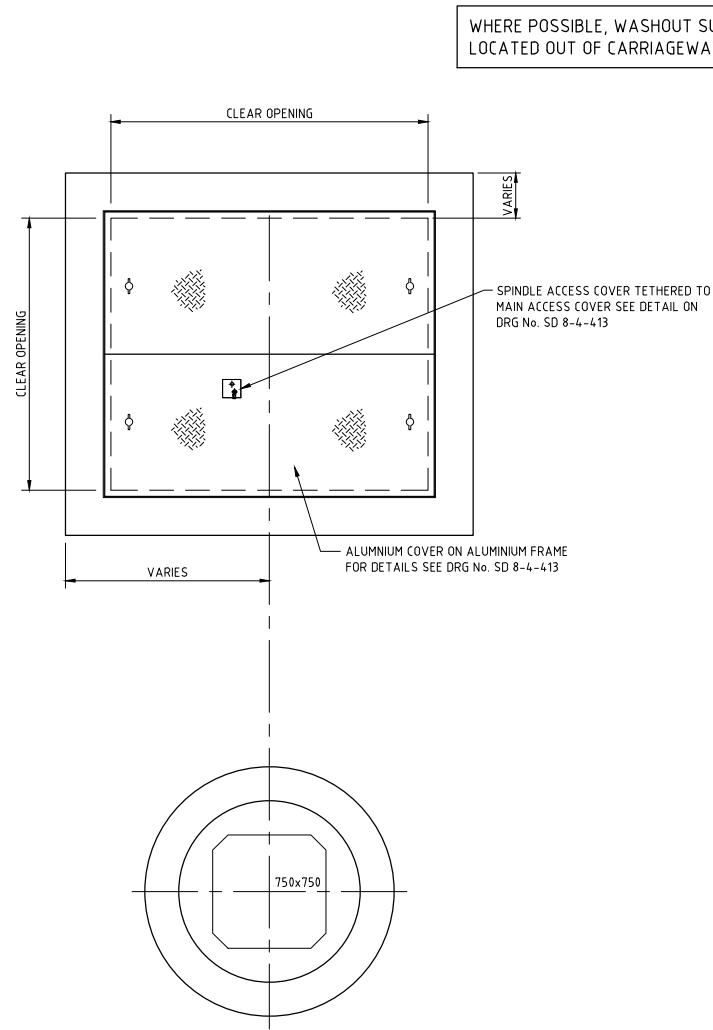




VALVE CHAMBER SCHEDULE - HDPE						
PIPE DIA O.D.	DI FITTINGS	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'E'	WASHOUT DIA
125	100	1300	1400	450	550	80
180	150	1300	1400	450	550	80
250	200	1500	1500	500	600	100
315	250	1600	1500	500	685	100
355	300	1800	1700	550	750	150

VALVE CHAMBER SCHEDULE - D.I. / G.R.P.						
PIPE DIA I.D.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	WASHOUT DIA
300	1800	1700	550	300	750	150
400	1900	1800	600	300	800	150
500	2000	2000	700	300	850	200
600	2100	2000	700	500	900	200
800	1700	2500	1100	500	700	200
900	1800	2700	1200	500	730	200
1000	1800	2800	1300	500	730	200
1200	1900	3000	1400	500	800	200



WHERE POSSIBLE, WASHOUT SUMP TO BE LOCATED OUT OF CARRIAGEWAY.

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH THE ENGINEER.
- ALL JOINTS BETWEEN CONCRETE AND PIPES SHALL BE WATERTIGHT.
- ALL EXTERNAL FACES TO BE TANKED IN ACCORDANCE WITH SPECIFICATION FOR TANKING DETAILS SEE DRG No. SD 8-4-103.
- ALL INTERNAL SURFACES ARE TO BE COATED AS SPECIFIED IN QCS, USING PAINT COLOUR 00A05 TO BS 4800.
- ALL DUCTILE IRON PIPEWORK TO BE WRAPPED IN ACCORDANCE WITH THE SPECIFICATION.
- ALL STRUCTURAL CONCRETE SHALL BE MINIMUM GRADE SRC 40 UNLESS OTHERWISE NOTED.
- SEE DRG No SD 8-4-106 FOR STRUCTURAL NOTES.
- 7mm NEOPRENE PAD SHALL BE PLACED BETWEEN ALL VALVES AND CONCRETE SUPPORT PLINTHS.
- 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE THE PIPE SCHEDULE OF FITTINGS FOR THE STRUCTURE PRIOR TO PLACEMENT OF THE ORDER.
- GATE OR BUTTERFLY VALVES SHALL BE RATED FOR 16 BARS. BUTTERFLY VALVES TO BE USED ON PIPE ABOVE 300.
- 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.
- CHAMBER SCHEDULE BASED ON EQUAL MAIN DIAMETERS IN CHAMBER. ALL OTHER CHAMBER COMBINATIONS TO BE DESIGNED BASED ON INDIVIDUAL CASES.
- 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.
- ALL BURIED FLEXIBLE COUPLINGS, FLANGED ADAPTORS AND OTHER FERROUS FITTINGS TO BE PROTECTED WITH MASTIC FILLER, MASTIC TAPE AND LAMINATED TAPE AS PER QCS.
- ROCKER PIPE LENGTHS TO BE 600 OR 1.5 x DIAMETER WHICHEVER IS THE GREATER.
- CHAMBER SCHEDULES ARE BASED ON DI FITTINGS FROM BS EN 545:2010.
- WASHOUT SHOULD BE CONNECTED TO SURFACE WATER NETWORK. THIS DETAIL MAY BE USED WHEN NO CONNECTION TO A PUBLIC STORM DRAIN IS AVAILABLE.
- RETRACTABLE TYPE GRP LADDER WITH SAFETY CAGE IF THE CHAMBER DEPTH IS MORE THAN 3.5 METERS.
- CHAMBERS WITH ALUMINUM FRAME & COVERS AND ARE LEVELED ABOVE FINISHED GROUND LEVEL SHALL HAVE ALUMINUM FLASHING OF THE WATER PROOF MEMBRANE AND PROTECTION BOARD.

LEGEND:

- FC D.I. FLEXIBLE COUPLERS
- IPF INTEGRAL PUDDLE FLANGE
- GV GATE VALVE
- DI DUCTILE IRON
- ST SCREED THICKNESS
- C/W COMPLETE WITH
- GRP GLASS REINFORCED PLASTIC
- EGL EXISTING GROUND LEVEL
- FGL FINISHED GROUND LEVEL
- DJ DISMANTLING JOINT
- RK GRP REKA COUPLING
- SC STEPPED COUPLING

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	06 JAN 16	ISSUED FOR USE	
1	23 JUN 15	ISSUED FOR USE	
0	15 SEP 13	ISSUED FOR USE	

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Public Works Authority

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PROJECTS AFFAIRS
QCS Section:
Section 8 - Drainage Works
Part 4 - Pipeline Installation

Drawing Title:
**TSE
WASHOUT CHAMBER**

Approved: _____ Sheet No: 1 OF 1
Date: APRIL 2019 Scale: 1:25 ON A1
Drawing Number: SD 8-4-409 Revision: 6