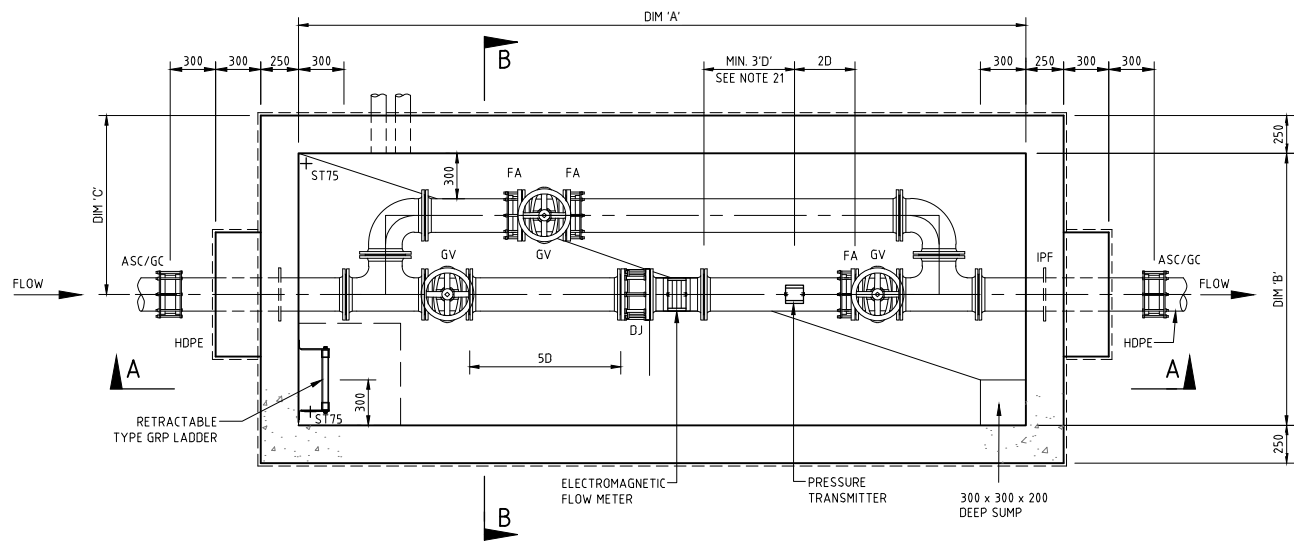
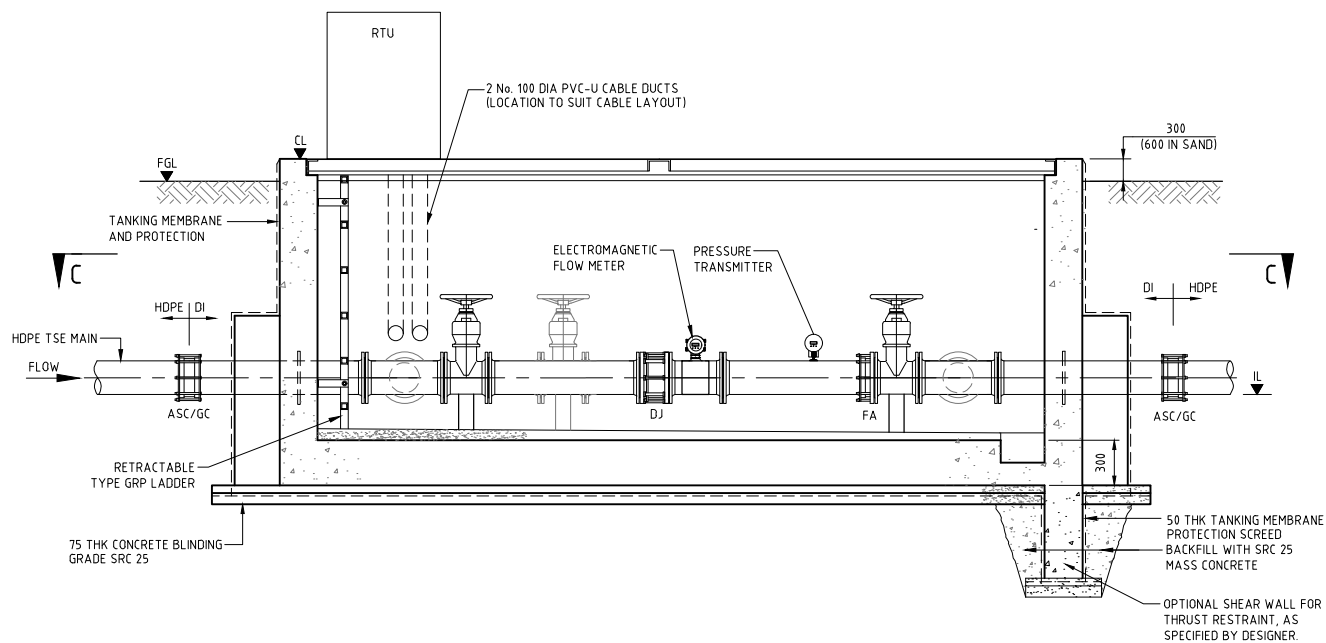


ALL CHAMBERS SHALL BE LOCATED OUT OF CARRIAGEWAY IN ACCESSIBLE AREA.

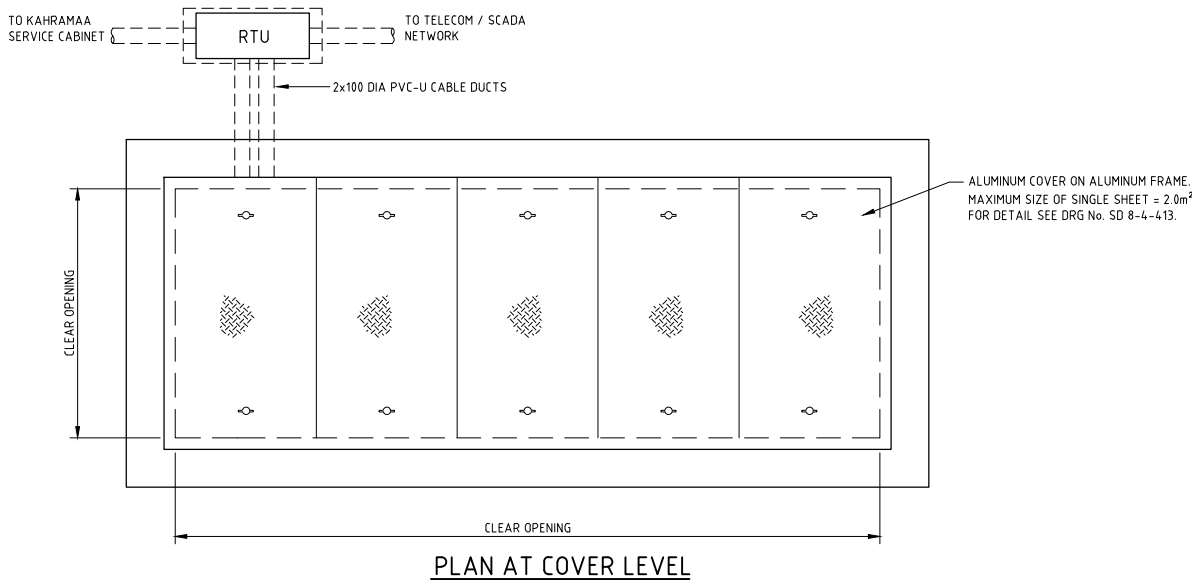


SECTION C-C

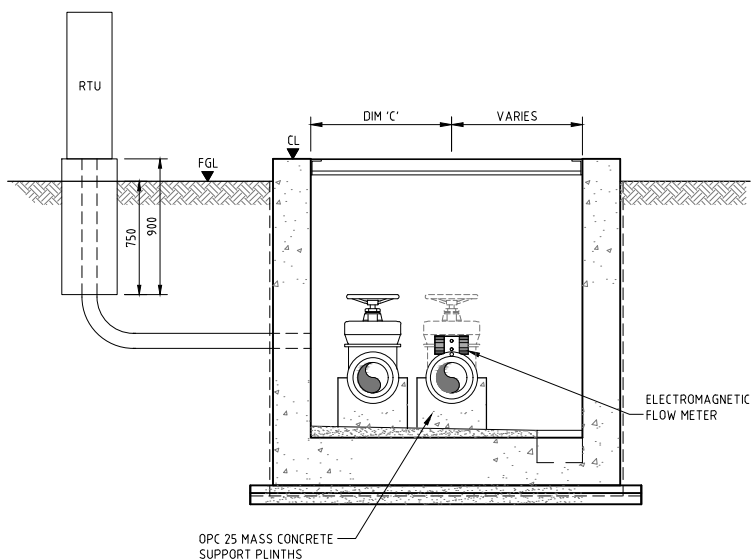
PIPE FITTING SCHEDULE



SECTION A-A



PLAN AT COVER LEVEL



SECTION B-B

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 AND STANDARD DETAILS.
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 REINFORCED CONCRETE SHALL BE GRADE SRC 4.0 MIX UNLESS NOTED OTHERWISE.
8. SEE DRG No. SD 8-4-106 FOR STRUCTURAL NOTES.
9. CHAMBERS LOCATED IN PAVED AREAS SUBJECT TO VEHICLE LOADING TO BE CONSTRUCTED WITH DUCTILE IRON COVERS, GRADE D4.00.
10. ALL FLOW MONITORING AND CONTROL EQUIPMENT TO BE ACCORDING TO THE REQUIREMENTS (QCS SECTIONS 8.9 AND 10), WITH REMOTE COMMUNICATIONS COMPATIBILITY. FLOW METER SHALL IDENTIFY FORWARD REVERSE AND NET TOTAL.
11. 7mm NEOPRENE PAD TO BE PLACED BETWEEN ALL VALVES AND CONCRETE PLINTH SUPPORT.
12. FOR SUPPLY LINES LARGER THAN 300 DN, UTILIZE TWO SEPARATE VALVE CHAMBERS, SEE DRG No. SD 8-4-401 & SD 8-4-418.
13. CHAMBER SCHEDULE BASED ON DI FITTINGS FROM BS EN 545:2010.
14. FOR SCADA AND RTU CABINET DETAILS SEE SD 8-4-418.
15. LOCATION OF SERVICE CABINET IS INDICATIVE ONLY. THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION WITH CUSTOMER SERVICES OF KAHRAMAA AND ENGINEER.
16. SEE DRG No. SD 8-4-419 FOR TSE SAMPLING POINT DETAIL.
17. LEVEL ELECTRODE FIXED TO CHAMBER WALL. ALARM LEVEL = ST+175 TO BE CONFIRMED DURING DESIGN.
18. RTU CIRCUITRY AND ESTABLISHING SCADA CONNECTIONS BY OTHERS.
19. CONTRACTOR IS RESPONSIBLE FOR GENERATING THE SHOP / AS BUILT DRAWINGS BASED ON THE AGREED CHANGES DURING CONSTRUCTION AND THE ACTUAL SITE CONDITIONS.
20. THIS LAYOUT IS FOR GUIDANCE ONLY. THE LAYOUT MAY BE MODIFIED TO SUIT SITE CONDITIONS DURING CONSTRUCTION AS AGREED WITH THE ENGINEER.
21. MINIMUM LENGTH OF STRAIGHT PIPEWORK UPSTREAM AND DOWNSTREAM OF FLOWMETER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
22. RETRACTABLE TYPE GRP LADDER WITH SAFETY CAGE IF THE CHAMBER DEPTH IS MORE THAN 3.5 METERS.
23. CHAMBERS WITH ALUMINUM FRAME & COVERS AND ARE LEVELED ABOVE FINISHED GROUND LEVEL SHALL HAVE ALUMINUM FLASHING OF THE WATER PROOF MEMBRANE AND PROTECTION BOARD.
24. FOR THE VALVES WITHOUT ACTUATORS, VALVES SHALL BE PROVIDED WITH STEM CAP AND STAINLESS STEEL EXTENSION SPINDLE WITH SUPPORT BRACKETS FOR EASE OPERATION OF VALVE FROM CHAMBER TOP.

LEGEND:

ASC	ANCHORED STEPPED COUPLING
CL	COVER LEVEL
DN	DIAMETER NOMINAL
DI	DUCTILE IRON
DJ	DISMANTLING JOINT
FA	FLANGE ADAPTOR
FGL	FINISHED GROUND LEVEL
GV	GATE VALVE
GRP	GLASS REINFORCED POLYESTER
HDPE	HIGH DENSITY POLYETHYLENE
IPF	INTEGRAL PUDDLE FLANGE
IL	INVERT LEVEL
OPC	ORDINARY PORTLAND CEMENT
RTU	REMOTE TERMINAL UNIT
ST	SCREED THICKNESS
SRC	SULFATE RESISTING CEMENT
PVC-U	POLYVINYL CHLORIDE UNPLASTICIZED
GC	GRIP COUPLER

Rev.	Date	Revision Details	Appd.
2	SEP 19	ISSUED FOR USE	
1	APR 19	ISSUED FOR USE	
0	01 MAR 19	ISSUED FOR USE	

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PA	

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

Drawing Title:
TSE VALVE AND FLOW METER CHAMBER WITH BYPASS DN 300 OR LESS

Approved:	Sheet No:	1 OF 1
Date:	APRIL 2019	Scale: 1:25 on A1
Drawing Number:	SD 8-4-424	Revision:
		2